BARTOLINI
ANATOMIA

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ACADEMIA LANCISIANA

THOMÆ BARTHOLINI, ARCHIATRI DANICI, ANATOME

QUARTUM RENOVATA:

NON TANTUM EX INSTITUTIONIBUS

b. m. Parentis,

CASPARI BARTHOLINI,

Sed etiam ex omnium cùm Veterum, tum Recentiorum Observationibus,

AD CIRCULATIONEM HARVEIANAM,

& Vasa Lymphatica directis.

CUM ICONIBUS NOVIS ET INDICIBUS.

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LUGDUNI,

Sumpt. MARCI & JOAN. HENRICI HUGUETAN.

M. DC. LXXXIV.

CUM PRIVILEGIO REGIS.

AUGUSTE
DANORUM MONARCHA
DOMINE
CHRISTIANE
QUINTE
DOMINE CLEMENTISSIME,

DESTINATUM Divo FREDERICO TERTIO, Regi gloriosissimo, Opus Anatomicum, quod flammarum injuriis ereptum, ex tenebris nunc emersit, Tibi, Auguste, submisso cultu, quantum possum, venio consecratum. Tu qui-

pe in ſolio paterno ſucceſſor, incredibili clementia ſolatus es publicum luctum ex Magni Regis Exceſſu, & privatum domeſtici incendij damnum, quibus perculſus animus languebat. Regio favore nos proſequutus, bono animo eſſe juſſiſti, ne deinceps innocentiſſimæ Muſæ deſperent tam benignè hactenus à Regibus habitæ. Innatam quippe Majeſtáti Tuæ clementiam ubíque exſeris, ejuſque radios ad me, quem Archiatri Tui Honorarij titulo dignatus quoque es, gratiosè diffundis, ut nomen in ſolio avito mutatum ſit, non animus, in ſubjectos vere Paternus. Ut igitur conſpectior ſit orbi noſtra felicitas, in Tua incolumitate ſita & clementia, renatam hanc Anatomen Tuæ Majeſtatis nomine Sereniſſimo ſuperbientem, in publicum

eum protrudo. Devotæ quidem subjectionis leve documentum, Majestate tamen Tua neutiquam indignum. Pretiosis alij gemmis & auro gratiam aucupantur. Major omnibus Homo est, quem offero, qui supplex genubus Tuis advolutus se eviscerat, & totus in obsequij venerationem solvitur. Non despicies hominem Tuum, & quicquid divinum simulacrum ambitu suo claudit, qui hominibus tam *justa pietate* imperare ab incunabulis didicisti, neque hominis muti, sed in Regis sui laudem disertissimi, interpretem et Regij vultus serenitate respicies, qua subjectissimos soles. Sic ex homine DEVS, per nostrum hominem, qui sumptis quasi Mercurialis universum pervolitat, æternitati par eris, quam Regio benignoque in omnes animo,

mo, & Heroicis factis mereris. DEUS rerum omnium arbiter annos meritis æquet, & clementissimi imperii diuturnitatem perennare jubeat. Sic vovet

MAJESTATI TUÆ

SUBJECTISSIMUS

TH. BARTHOLINUS.

THOMAS BARTHOLINUS

LECTORI BENEVOLO

S.

P[illegible] in publicum orb[illegible] *Anatomia* mea *Nova*, multo[illegible] experta, quam & pub[illegible] necessitas privata mihi [illegible] imperavit. Quatuor [illegible] cum [illegible] Reformata per ma[illegible] in quoad circulatio[illegible] tantum [illegible] mox lice[illegible] Clarissimorum Naturæ [illegible] & [illegible] [illegible] editionum [illegible] prissinam [illegible] deram, [illegible] non [illegible] excalescere [illegible] inducere ut ad [illegible] recoquenda videretur, [illegible] publicamque expecta[illegible] [illegible] Enim

* 5 verò

[illegible] qui [illegible] manum Anatome parate Sa-[illegible] Anatomes [illegible] Reformatae [illegible] observationes [illegible] corporis, priorum tempo-rum [illegible] Naturae [illegible] cum [illegible] quae praecedebat [illegible] quod terminus [illegible] Natu-rae [illegible] praeclara [illegible] Projectores [illegible], ut [illegible] Naturam prom-[illegible] Urbis [illegible], quam-[illegible], ea revelavit, quibus [illegible] Reipublicae Anatomicae extendere [illegible] Theatri [illegible], in humano corpo-[illegible] quae publica demonstratione [illegible] Naturae secretum, [illegible] quod [illegible] exercent [illegible] Vitis Lam-[illegible] ubi-

[illegible] infecta dexteritate, per [illegible] literatum, generosa æmulatione [illegible], ut ex fertili Naturæ campo, tot [illegible] uberrimæ messis colligeretur. [illegible] aut invideant felicitati [illegible] quæ, plura sæculo nostro observa[illegible] fuerunt, [illegible] ex[illegible] suis atquos esse [illegible], quæ priora secula non [illegible]. [illegible] quippe hoc sæculo majorum au[illegible] [illegible], quam motus oculatus [illegible] credulis. Præterea, cum [illegible] Natura dederit & [illegible] multos excitat [illegible]. Unum genereque [illegible] bene [illegible] cupimus. Hinc cul[illegible] manus, acuuntur [illegible] impenditur, usque ad [illegible]que, qui in hoc [illegible] decurrunt, in [illegible] manca est Anatomia [illegible] res nostræ ætatis [illegible], Mathesin excolere, [illegible] picturâ excellere, [illegible]que [illegible] convicto, [illegible] simpli[illegible] requirere. Geometriæ [illegible] [illegible]rum contextus emergit. Opti[illegible] Mechanica [illegible] [illegible]que in mente. Pictura adum-

brat

[illegible] potuerit. [illegible] commodè fieri [illegible] [illegible] [illegible] [illegible] certo [illegible] [illegible] [illegible] veterum quam recentiorum inventis & placitis velut [illegible] naturam [illegible] culmen procedunt quæ de ma[illegible] [illegible] aperitum [illegible] [illegible] [illegible] [illegible], veteri corporis œconomiâ, ex novis [illegible] [illegible] varianda, delenda, [illegible] multa ad[illegible] illius deerant perfectioni, jam Dei [illegible]

PRAEFATIO

[illegible]

Circu

Circulationem Harveianam & Lymphaticis nostris Vasis [illegible] quibus [illegible] ornamentis novis superstruximus [illegible] ad publicum bonum adornavimus. Nec usquam [illegible] textum [illegible] immutavi, [illegible] sermone auxi [illegible] observationes nuperas vel partium actiones novas [illegible] futurorum calumniam [illegible], ea tamen temperantia [illegible] brevitatem nec prolixitatem in me [illegible] culpare possit. Formæ enim portabili [illegible] accommodari juniorum in gratiam quibus grata sunt opuscula [illegible]. Quorum [illegible] memoriæ consulturus, Icones partium [illegible] huic editioni addidi, ad ductum [illegible] olim [illegible], [illegible] publice visas, quibus [illegible] pauca alia ex illorum scriptis, qui [illegible] Anatomen illustrarunt, ad [illegible] naturæ elegantiam expressæ, quorum laude in operis progressu recenseo, apud posteros perennaturas [illegible]. Nucleum exhibeo omnium observationum & opinionum, quæ hactenus vel ex theatris Anatomicorum vel scriptis prodierunt, in quibus nec fides mea in recensendo desiderabitur, nec candor in judicando. Naturæ enim partes egi non meas, singulis sua reddens, sed cum fœnore. Illa quidem, quæ ad Anatomes augmentum & ornamentum ipse contuli, quanquam sine comparatione aliis laudentur, malui censuris meliorum

subjicere

[illegible]

[illegible] quam pene [illegible] hanc sub [illegible], eadem [illegible] morbis corporis [illegible] [illegible] impu[illegible] [illegible] necessariis [illegible] summa [illegible] [illegible], quam [illegible], Dei [illegible] adscribo [illegible] fatale [illegible] [illegible] Anatome [illegible] [illegible] notum [illegible] quoque debe[illegible] [illegible] publicoque [illegible] summa fide [illegible] hac con[illegible] [illegible] pertine[illegible] [illegible] hac

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[illegible] Mathematicorum librorum [illegible] ... [illegible] commodis [illegible] ... pro arbitrio supple, & error[illegible] ... [illegible] tate [illegible] tempus, qu[illegible] ... ut [illegible] spem inchoare [illegible] ... aliisque quæ [illegible] ... se, mihique, quia [illegible] ... bene precare. Vale. Scriptum [illegible] ... perrime restaurata [illegible] ... Divi Thomæ festo XXI. *Decemb.* [illegible] LXXI

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Cap. III. De [illegible] corpore [illegible] & [illegible] vena & [illegible]
Cap. IV. [illegible]
Cap. V. De [illegible] [illegible]
Cap. [illegible] De [illegible] [illegible] vena, [illegible]
Cap. VI. De Vena subclavia ejusque ramis ac jugularum.
Cap. VII. [illegible] brachiorum & [illegible].
Cap. VIII. De Trunco Venæ Cavæ [illegible] quoad crura.
Cap. IX. De [illegible]

LIBEL.

LIBELLI II. DE ARTERIIS.

[illegible]

[illegible] De Arteria Magna trunco descendente. | [illegible] De Arteria Magna trunco descendente.

Cap. III. [illegible] | [illegible]

LIBELLI III. DE NERVIS.

Respondentis Libro III. De Capite.

[illegible] | [illegible] Cerebri, adeoque [illegible] Nervis.

[illegible] | [illegible] De Nervis [illegible] vel [illegible] & [illegible].

[illegible] | Cap. V. [illegible] & [illegible]

LIBELLI IV. & ULT. DE OSSIBUS.

Ubi simul

De Cartilaginibus, & Ligamentis.

[illegible] | Cap. XI. De Maxilla inferiore.

[illegible] nere. | [illegible] De Dentibus in genere.

Cap. XIII. De Dentibus in specie.

[illegible] | [illegible] vertebris in genere.

Cap. IV. [illegible] in genere.

De Spina vertebris in specie.

Cap. VI. De Ossibus Cranii pro- [illegible]

Cap. XVI. De Osse innominato.

Cap. VII. De Ossiculis auditus. | Cap. XVII. De Costis.

[illegible] maxillæ superiori communibus. | [illegible] De [illegible] pectoris seu sterno.

[illegible] De Ossibus maxillæ in- [illegible] | [illegible] & scapulis.

[illegible] | [illegible] X. De Ossibus totius manus.

[illegible] | [illegible] pedis.

[illegible] | [illegible] De [illegible] [illegible].

ACCEDUNT.

[illegible] eadem, quæ [illegible]

THO

THOMÆ BARTHOLINO DN. DE HAGESTED,

Luculentum ANATOMIÆ *opus edenti*

POst modum calamo durus est Bartholine li-
borum,
Et via, qua possis surgere, nulla patet.
Fama tibi totum jam pridem colligit orbem,
Et seclum scriptis pignerat omne Tuis,
Utere concessis a Regibus utere donis;
Quæ [illegible] te negasti antè otia, redde Tibi.
Sat scripsit, cui scripta sibi, cui dedita Famæ
Comparat æterno, Bibliotheca dies.

Vitus Bering

IN EFFIGIEM TH. BARTHOLINI.

SIc Bartholini effigies ora [illegible] extant
Hafniaque [illegible] superba [illegible],
Clarescat [illegible]
Hic ex dissecti corpore civis ovat.

Jo. L. Blasius

Aliud EJUSDEM

HÆc tibi Naturæ produnt miranda parentis,
Quæ Thoma [illegible] oculis viderat ipse suis.
Vera putes, quæ [illegible] credulus ille,
Si voluit Thomas [illegible] crede bene.

Incon

[illegible] ANATOMICO &
ARCHIATRO Regio
DN. D.
TH. BARTHOLINO,

[illegible] Academiæ Hafniensis, Magnifico & Pro[illegible] [illegible] Anatomiam suam quartâ jam curâ auctam edenti.

S I C [illegible] eisdem
[illegible]
[illegible] Titan Lustrator Olympi
[illegible]
[illegible]
[illegible]
[illegible] Orbi
Sufficis æternâ luce perenne decus.
[illegible]
[illegible]
[illegible] citius sese Natura, unaque relinquent
[illegible] A[illegible]
[illegible]

Quam tua de[illegible] Mund[illegible]
Mentis inexhaustæ prod[illegible]
At justas, Vir summe, [illegible] quis solvere grates
[illegible] vel pro meritis verba referre potis?
Post Donatoris miracula prima supremi
[illegible] creatricis Munera [illegible]
[illegible]
[illegible] pagémque refert Machina tota suam.
[illegible]
[illegible]
[illegible]
[illegible] Patria d[illegible]
Quid ju[illegible]

C[illegible]

Cet[illegible] hanc [illegible] [illegible]
Coll[illegible] [illegible] sinus,
P[illegible]
Et[illegible]
R[illegible], [illegible], & [illegible]
Qu[illegible] [illegible]
L[illegible]
[illegible]æ composuere Manus.
C[illegible] [illegible]compleris, concedite Moles
[illegible]
Non[illegible]
N[illegible] & [illegible] M[illegible]
L[illegible] C[illegible]
O[illegible] C[illegible]
N[illegible] P[illegible]
Nil [illegible] posse
Ne P[illegible]
Lysippive [illegible] P[illegible]
Ni un[illegible] Antipater, Cal[illegible]misve, Acragasve, priorve, [illegible]decus.
Mentor habent laudis, nil trahit unde Myron
Sive quis Auctoris nutum discupit artes,
M[illegible] quis nobile censet opus.
Sensibus hic longe lassatis, denique captum
Complecti discat nil potuisse suum.
Attamen Æthereâ ut [illegible]tur origine, summâ
BARTHELINI [illegible] Fabrica tota patet.
Hoc [illegible] eserant [illegible] suos aperit Natura recessus.
Naturæ & [illegible]ujus totius [illegible], Homo.
Quidquid & [illegible]um fuit ignotumve Priorum
Ingenuus, [illegible]
Quin rivos [illegible],
Mereat ut ex ipso noscer[illegible]
It[illegible] lateam, doce[illegible]
Et [illegible],
Certe Ap[illegible] Notæ
Omn[illegible] Manus.

Quo

[illegible] V[illegible] [illegible] Medicæ, Doctè quæ
[illegible] L[illegible]
[illegible], Pietas [illegible]que Virtus
[illegible] habitare casas.

JOH. HOPNERUS.

Venerando PARENTI
TH. BARTHOLINO
Anatomen quartum Renovatam edenti.

E[illegible] Hippocrates, tot nomina clara Deorum
[illegible] nostra ferunt.
[illegible] labellus,
[illegible]
[illegible] Nepotum
[illegible] Pallas amat
[illegible] sacra pectus,
[illegible] ante patet.
[illegible] decurrere rivi
[illegible] monumenta libris.
[illegible] triumphos,
[illegible] futura tuos.

[illegible] BARTHOLINUS
Thom. Fil.

In

IN EFFIGIEM
PARENTIS.

SIC Patris ora micant, senium minitantia vultu,
Sed manet æterni florida fama Viri.

Christoph. Bartholinus.
Thom. Fil.

AD PARENTEM.

DUM totum renovas hominem reserásque recessus;
Ecce novum toto panditur orbe decus.

Thomas Bartholinus
Junior.

SUMMA PRIVILEGII REGIS Christianissimi.

AUCTORITATE REGIS SANCITUM [illegible] Titulus est, THOMÆ BARTHOLINI *Anatomia reformata*, intra sex annos [illegible] ab hac [illegible] imprimat, [illegible] alibi [illegible] diverso [illegible] præter FRATRUM HUGUETAN [illegible] Lugdunensium voluntatem. [illegible] declaratum, notam inducturove habeatur [illegible] ut hujus [illegible] operis initio præfigatur [illegible]. Qui [illegible] fecit, librorum confiscatione & pœna [illegible] mulctabitur, aliisque pœnis in [illegible] declaratis. Datum Parisiis die 26. Septemb. [illegible] 167[illegible].

De Mandato Regis Signatum.

JUNQUIERES.

Quod quidem diploma in acta Typographorum Parisiensium [illegible] Octobr. 167[illegible].

[illegible] 29. Februar. 1684.

OSPEDALE
DELLA
CONSOLAZIONE
BIBLIOTECA

THOMAS BARTHOLINUS
A. C. CIↃ IↃC LXXI
Ætat. LVI.

IN ANATOMIAM BARTHOLINIANAM PROOEMIUM.

ANTHROPOLOGIA seu doctrina de Homine vulgo, & recte tamen, in geminas dispescitur partes: *Anatomiam*, quae [illegible] & [illegible], quae de anima.

[illegible] rectius anatome, ab [illegible]

[illegible]

[illegible]

[illegible] quam quantitatiuam seu in- [illegible] & impetum facientia, ex [illegible] mores & spiritus. Atque laxa h[illegible]

[illegible]

[illegible] motu vel usum comparatum Galeno [illegible] natum dicunt: partem [illegible]

[illegible]

4. Quae propriam habet circumscriptionem. Contrarium in adipe est, quae cernatur figura partium circumiacentium.

[illegible]

[illegible] quid significent hic *functio* & *usus*, [illegible] functio potest esse vel [illegible] actio est qua partes sibi consulunt, [illegible]

[illegible] peculiarem habent [illegible] in animam [illegible] perficit [illegible]

[illegible] videlicet [illegible]

[illegible] vero est [illegible]

[illegible]

[illegible] temperamento [illegible] ex Galeno. Ex quo [illegible]

1. Propter quas *temperies*, hoc est, Summe [illegible] gratia, Cutis quo [illegible] qual[illegible] est temperata [illegible] in quem usum [illegible] omnes qualitates [illegible]

[illegible] mollities, crassities, tenuitas, durit[ies] [illegible]

3. *Quæ necessaria accidunt* ut magnitudo [illegible] vel cavitas, figura, continuatio, co[illegible] Verum non in hisce in [illegible], in quantum [illegible], cum aliis Anatomicis raro accuratum hoc [illegible] inter actionem & usum [illegible]; præsertim ad [illegible] earum rerum repetitionem.

[illegible]

perfectior & absolutior ratione amplificationis sangui[nis] [illegible] ex fœmina. Alii ve[ro] [illegible] de partium [illegible], ex sangui[ne] [illegible]

[illegible] & sanguine [illegible] explicavit in *Controversiis Anatomicis* Cl. *Paaw* [illegible], *de Partium* [illegible]

At [illegible] viscera ratione perfectionis [illegible]

[illegible] proportionato, vena, per [illegible]

[illegible] ex nucleo, vel semine, in terram [illegible] ad [illegible] trunco & ramis, sic ex [illegible] sanguis [illegible] vena cum suis radicibus.

[illegible]

quæ viscera esse possunt.

Carnis viscera generatio.

Partes plures.

[illegible] *partes* [illegible] *commoderatu* & vel *magnæ*, [illegible] vel *minorum* [illegible] *ornatu* [illegible] ma & [illegible].

[illegible] partes [illegible] *ratione finis*, vel *ratione materiæ*.

Ratione finis — *Ratione finis* [illegible] sunt *principes*, aliæ [illegible] principibus, & *ministræ*.

Partes principales. — *Principes* sunt *Hepar*, *Cor*, *Cerebrum* quæ aliarum partium [illegible] Unde [illegible] oriantur [illegible] [illegible]

Principium radicationis. *Principium conservationis.* — [illegible] & [illegible]

Partes ministræ. — *Ministræ* [illegible] *necessariæ*, [illegible] *non* [illegible]

Necessariæ [illegible]

Non necessariæ [illegible] Aristotelem.

Ratione materiæ. — *Ratione materiæ* [illegible] partes [illegible] sunt *similares*, aliæ [illegible] *dissimilares*.

Partes similares, quid sint, & quotuplices. — *Similares* [illegible]

[illegible]

[illegible] pennæ.

[illegible]

Caro quotuplex?

1.

2.

3.

4.

Glandularū usus. 1.

2.

3.

4.

[illegible]

[illegible] ideas, jugulares numerosae, parotides, [illegible]

[illegible]

ab auribus ad claviculas. Sunt [illegible]

[illegible]

[illegible]

gredimur ad partes.

[illegible] : Os, cartilago, li- [illegible]

Partium [illegible]

[illegible] musculos, non esse [illegible]

[illegible] caro, cutis. His alij addunt [illegible]

[illegible] &c. [illegible]

[illegible] est sub spiritus [illegible]

[illegible] *Spermatica*, quæ ex semi[illegible]

Par- [illegible] *sperma-* [illegible]

[illegible]

partium sopitur.

[illegible]

ex sanguine factæ putantur, ut caro.

[illegible]

ganica vulgo dicuntur seu instrumentales.

[illegible]

actio, ut palpebræ, &c.

[illegible]

distinguuntur in 4 gradus seu ordines.

[illegible]

membra

[illegible]

...ramu prospiciunt. 2. Incipit à radicibus [illegible]

[illegible] spiracula.

FIGURÆ EXPLICATIO

[illegible] in [illegible] partes [illegible] [illegible] C[illegible] litæ, locaque [illegible] præsentantur.

A [illegible]

B. [illegible]

C C [illegible]

D [illegible]

E E [illegible]

F [illegible]

G [illegible]

H. [illegible]

I [illegible]

K [illegible]

L [illegible]

M [illegible]

N [illegible]

O [illegible]

P. *Vena mediana seu communis.*

Q. *Vena cep[illegible]*

R [illegible]

SSSS. *[illegible]*

T [illegible]

V [illegible]

X *[illegible]*

ANATOMIÆ BARTHOLINIANÆ

LIBER I

DE INFIMO VENTRE.

M [illegible] sectionis hic venter præmittitur, [illegible] excrementorū, [illegible] a cadavere [illegible] et Ratione [illegible] corporis, ab ore initium capit. [illegible]

Ratio ordin[illegible] *Cur sectionis initium [illegible] ab imo ventre?*

[illegible] Medicē ordinem [illegible]

[illegible] diaphragmate a thora[illegible] circumiter [illegible] [illegible] pubis, coxendicis, & [illegible] lumborum vertebris, & utrinque costis [illegible].

Imus venter quid?

[illegible] *epigastrium*, quod stomacho [illegible] b. Tab. 1. lib. 1

[illegible] in specie [illegible]

[illegible] *hypochondrium* di[illegible]

Imi ventris [illegible] & [illegible] appellationes.

[illegible] [illegible] Bauhini. Sed [illegible] vox, quā etiam Fernelius, Lauren[illegible] vero Lin[illegible] [illegible] *prava* [illegible] pressa &

[illegible]

[illegible] Galenus [illegible] *hypogastrium* [illegible] Pollux, imus ven[illegible] [illegible] *ilia* dicunt.

[illegible]

quibus suo loco.

CAP. I.

DE CUTICULA.

3. In morbis diuturnis & tabe sæpe crassescit. 4. Incisa vel lacerata non emittit sanguinem. 5. Non mouet, &c.

[illegible]

sed atque solidum aquarumque sunt [illegible] humores [illegible] qui acrimonia & acerbitate potius [illegible] cuticulæ, aut partim eroderent. 3. Crassa [illegible]

[illegible]

[illegible] unguem, in fœtu. 2. Absque cuticula

[illegible]

[illegible] calor & inchoationem duntaxat accepit: quia [illegible] potens est [illegible] extra uterum comple- [illegible] a frigiditate aeris, quæ condensat, exsiccatque, quæ causa est quod cutis [illegible] in utero rubere videatur. Hinc facile ap-

[illegible]

[illegible] & locus calidus [illegible] ubi cuticulam crescere scribit.

[illegible]

[illegible] in utero formari a [illegible] cognatis postea [illegible] cum [illegible] solentur.

[illegible]

[illegible] Proxima & externa est [illegible] alicuius corporis, ut aeris, &c. cogens atque den- [illegible] aliaque alia calida, cutica-

[illegible]

[illegible]

[illegible]

CAP. II.

DE CUTE.

[illegible]

Actio. [illegible] Verùm hoc de omnibus partibus dici potest.

[illegible] no equidem cum priori valoris est.

Materia [illegible] *Color Cutis.* [illegible] videtur, tamen superat [illegible]. Nam albicat cutis natura- [illegible]

[illegible]

Cutis ex quibus? [illegible] consolidatio. *Spigel.* recte.

[illegible]

Affectus cutis. [illegible]

An ex fibris? [illegible] venarum, nervorum & tendinum [illegible] carunculos ex cute [illegible]

[illegible]

[illegible] & [illegible] [illegible] quae [illegible] ex [illegible]
[illegible] ac vulgo expli-
[illegible] & [illegible] *Autor* de
[illegible]
[illegible] & definiunt, *Fusius* con [illegible]

[illegible] ca- *Cutis*
[illegible] quartum, membra- *dutes*

[illegible]

la [illegible] *Fibrilla*
[illegible] *Cartesii*
[illegible] vocat, quam

[illegible]

[illegible] quae assumuntur [illegible]

[illegible]

[illegible] & [illegible]
[illegible] fusa est, & quae [illegible]

[illegible] Planetas & adventitiis [illegible] ab interiorum [illegible] constitutione dependent. [illegible] singulas [illegible]

[illegible] de la Chambre. [illegible]

[illegible] *Quotumus* [illegible] excludat [illegible] quam [illegible] naturali tantum [illegible] per alvum [illegible]

[illegible] *Zacuti Lus.* [illegible] & [illegible]

Perforata est variis in locis. [illegible]

[illegible] corpus [illegible] plurimis [illegible] Ab his poris [illegible] Perfo[illegible] [illegible] *Hipp.* [illegible] non tantum [illegible] rubrum & [illegible] Praeter naturam [illegible] Calore quoque [illegible]

[illegible] vasa [illegible]

[illegible] Ita *Hippocrat.* [illegible]

[illegible] post [illegible] Sed propius [illegible]

[illegible]

... è vasa excretoria lym- [illegible] ... *Lympha* [illegible]

[illegible]

dulas poreorum ... per transversum excurrens nervos ... *Malpighio* notante, ... excernitur per totum sudor, ut madi[illegible]

[illegible] *Pori in-* [illegible]

... aquæ commeant, in subita vasorum retentione, in [illegible]

[illegible]

... *forma & magnitu-dine* ... fine, sicut in [illegible] *Pororu diversi-* [illegible]

... Sunt certè varietates ha... [illegible] ... gulares, cubi et cubica, ... sphærica corpora per tra... poros via ten-tent, aut versa vice. Sic non quivis vapores ad cut... [illegible] ... vel ... non pervadit propter ...

figuram

[illegible] particulas aëris, qua- [illegible] per foramina, per [illegible] Den- [illegible] impositum aërem ramosam in cor- [illegible] Multa alia ex pororum figura solvun- [illegible]

[illegible] mascho, si saliva alterius figuræ [illegible]

[illegible] Pecquetus, cur per via bili de- [illegible] excludant, nec bili vicissim [illegible] alia enim esse qua- [illegible] quoque diversam a sero esse [illegible] & serum in renibus separetur [illegible] excipiantur, ex varia configura- [illegible]

[illegible] apparata de cutis crassitie [illegible] gatur plurimum & [illegible]

[illegible] quædam tenuior, ut in vola [illegible]

[illegible] Petro Servio [illegible]

[illegible] crassitie nascens melandicam ac maesse.

[illegible] *Connexio.*

[illegible]

[illegible] *Vasa.*

[illegible] casque exiles, [illegible] & penem sitas, [illegible] quia per has, ex *Galeno*, [illegible] *Hujusmo-* [illegible] in inflammationibus cutaneis, & in [illegible] & fibrillas cutis hinc derivandas, nuper dictum.

CAP. III.

DE PINGUEDINE.

P[illegible] *Pingue-* [illegible] *do quid*

[illegible]

Discrimen inter [illegible] [illegible]

[illegible] ipsa autem movet [illegible].

Pinguedine destituuntur [illegible] m, pol[illegible] [illegible] teronum, & [illegible] [illegible] s tarsar, [illegible] & [illegible] [illegible] vasa, quæ [illegible] planta, maxime calce. [illegible] de quibus suo loco.

[illegible] opinioni oppono [illegible]

[illegible]

[illegible] ... sanguini cum pinguedinem sive ... [illegible] ... in ipsis vasis ... pinguedinis ... & ante nos alii, ... ut refert, obeta ... [illegible]

Quæ in variis partibus reperiuntur.

[illegible] ... substantiam, eandem- ... [illegible] ... ad ... eiusmodi partes. ... [illegible]

FIGURÆ EXPLICATIO

Hæc tabula [illegible] expressa, [illegible] vasa [illegible] perspicuè [illegible] exprimuntur.

AA. *Cuticula.*
BBBB. *Cutis.*
CC. *[illegible]*
DD. *[illegible]*
EE. *[illegible]*
[illegible] velata.
FF. *[illegible]*
GG. *[illegible]*
HH. *Linea alba.*
I. *Umbilicus.*
K. *[illegible]*
LL. *[illegible]*
MM. *[illegible]*
NN. *[illegible]*
[illegible]
OO. *[illegible] nervosa.*
P. *[illegible]*

[illegible] vel chylo in sanguinem [illegible]tur. Unde Aristoteles: *[illegible] exprimuntur [illegible] in quibus sunt [illegible].*

[illegible] paulo frigidior sit [illegible]

[illegible]

Efficien-

[illegible]

giditatem.

[illegible] ora sunt pinguiora, ut castrata, fœminæ, item [illegible]

ra sunt.

[illegible]

5. Operculum, aquæ ferventi immer[illegible] sublatos cont, & in aquam vertit, ob frigiditatem. [illegible]

solentes non dentantur.

[illegible]

nos non latel [illegible] simplicius [illegible]

[illegible] denſitas [illegible]

[illegible] est [illegible] qualitas primo activa, aut frigus [illegible]

[illegible] membranæ efficeret tenuem [illegible]

[illegible] densitas vaporum materiam contentam [illegible]

[illegible] vertuntur. Sed responsio ex prioribus liquet, & [illegible] attribuuntur, si [illegible]

[illegible] expiratione locus [illegible] succedunt hæc, ac si [illegible] necesse est [illegible] priorem conditione [illegible]

[illegible] frigida dilatata [illegible] vapores [illegible] calidi ad [illegible] aere foris calido non item.

[illegible] Nec natura [illegible] foret enim [illegible] & [illegible] Calori vero moder[illegible] & [illegible]

[illegible] prospic[illegible]

[illegible] præterea [illegible]

[illegible] nocuerunt [illegible]

[illegible] habeat. De qui[illegible]

Alius Neotericus novum [illegible]

[illegible] forma [illegible]

[illegible] nationem non habe[illegible] & [illegible] forma [illegible]

[illegible] corporea pro ea *inseparabili* [illegible]

[illegible] *densa fixa* partibus [illegible]

[illegible] sanguis in trunco venæ po[illegible]

[illegible] conspicuæ [illegible]

[illegible] spiritus, quæ una cum sangui[illegible]

[illegible] pantur, & in penitis, in quibus vasa me[illegible]

[illegible]

[illegible] sunt [illegible]

[illegible] *Cornea* [illegible]

[illegible] *Severinum Malp.* [illegible]

Forma pinguedinis. [illegible] extra ob fibras [illegible] extra, [illegible]

[illegible]

Sacculi pinguei. [illegible] *laborum* [illegible] ne tra[illegible] hinc propter [illegible] & *arterias*, [illegible] *vasa* [illegible] membranosi sacculis [illegible]

Illorum quae figura. [illegible] *Deducuntur* [illegible] *Venas* [illegible]

Glandulae. Glandula [illegible] pinguedinis [illegible] ditate abundantibus copiosiores.

Usus. Usus 1. Instar vestis calefacere, calorem nat[illegible] [illegible] debilis [illegible]

2. Impe[illegible]

[illegible] ructus gignit, & pro bona coctione [illegible]

[illegible]

[illegible] *Galenus* [illegible] *Ron-* [illegible] *Hermo-* [illegible]

An vitiatur in alimentum.

[illegible] motum. Hinc tabidi & ventulae deformes.

[illegible]

[illegible]
visceram vsu.

CAP. IV.

DE MEMBRANIS [illegible], de membranis [illegible]

Situs membranarum.

P[illegible]
nere cognoscenda.

[illegible] aliquando operimenta, & [illegible]

Differentia inter membranam, tunicam, & meningem.

Membranæ [illegible] corpulentiorem, ut [illegible]

[illegible]

Membrana quid?

[illegible] membranis tribuitur, [illegible]

Forma est superficiei æqualitas, [illegible]

Usus.

[illegible]

Cuti

[illegible]

Est autem membrana alia crassior, alia tenuior.

[illegible] *an membrana an tunica?*

[illegible] [mem]brana carnosa jam audiemus.

[illegible] *membrana carnosa* [illegible] *Membrana carnosa quid sit*

[illegible] *Vesalius & Valverda* [illegible]

[illegible] *Eius usus*

[illegible]

[illegible] musculo sui motu haereat.

[illegible] & hanc membranam fulcire; Nam

[illegible] *Connexio*

[illegible]

[illegible]

Ortus membranae carnosae. [illegible] & [illegible] haeret, & [illegible].

Superficie [illegible] acri & vellicante materia in febribus.

Membrana musculorum quae? [illegible] na filamenta. Hinc *Spigelius* [illegible] expansio, unde [illegible]. A panniculo carnoso non dist[illegible] *Laurentius*, [illegible] potest [illegible].

Fascia lata.

Usus membranae musculorum. [illegible] *Riolanus* [illegible] cum membrana carnosa [illegible].

CAP. V.

DE MUSCULIS IN GENERE.

M[illegible]

Musculi quid? [illegible] *Helmontius* [illegible]

[illegible]

[illegible] serviat.

s an males ftatim corium fuum exorfi atque per

Tendinosa quemplex.

Tendinosum [illegible] *unitam*, *vel disgregatam*. *Unita* est [illegible] sive [illegible] [illegible].

[illegible] *disgregata* [illegible] fib[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] nusquam.

Fibrarũ distinctio, ab Origine, ab officio.

[illegible] quas *fila* [illegible] *Tendinum* [illegible] *Aristoteles* [illegible] *Officio* [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].

Fibras autem *tendinosas* in [illegible] Motu Musc. ut funem [illegible] [illegible] [illegible] [illegible]

De fibris tendinosis notandum.

1\. musculo gracili interno, ab [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] pergit.

2\. fibras in [illegible] [illegible] se diffitas quem

[illegible] autem [illegible] partem, [illegible] esse, prope utrumque extre- [illegible]

De illius fibris observationes.

1. [illegible]

2. [illegible]

3. [illegible]

4. [illegible]

Fibrarũ ordine. [illegible]

[illegible] ambientia, quot in ventre numerantur [illegible]

Et Versus. [illegible]

[illegible] Anatomicorum illustrium, [illegible] *Aquapendente* [illegible]

Tendo musculi qui d. [illegible] *Aquapendente* [illegible] continuum a principio ad finem musculi, [illegible]

Ejus primum. [illegible] ipso generationis at dispensat [illegible]

[illegible] *principium, medium, &* [illegible]

[illegible] *caput musculi* quando tendinosum est, vo- [illegible] ligamentum, illudque statuunt [illegible] b quod fit motus tendinē, seu fine musculi. [illegible] autem principium in bona parte musculorum tendi- [illegible]

[illegible]

principia musculi.

Galeni.

Qua [illegible]

[illegible] Galenus [illegible]

[illegible]

[illegible] possit deducere. Ali- [illegible] musculi duas nervorum [illegible] nes recipiunt, ut [illegible]

[illegible] plerumque tumet, & [illegible] est, ut in musculis [illegible]

[illegible]

ex parte [illegible]

[illegible] Hinc [illegible]

[illegible] Deinde principium autem habet motu [illegible]

[illegible]

[illegible] esse mod[illegible] ligamento [illegible]

[illegible]

[illegible] non [illegible]

Magnitudo nervorum. [illegible]

ritus animales tantum [illegible]

[illegible]

nervi reliquam molem contineant?

Numerus. [illegible]

Figura. [illegible]

[illegible] latum sibi mutuo [illegible]

[illegible]

alba. *Ordo* est series fibrarum [illegible]

[illegible]

caritibus

[illegible] *Versus* est se- *Versus*

[illegible]

tur, ut latera transversa omnium cum uni sint in iisdem

[illegible]

Musculorum [illegible] *Actio-num.*

[illegible] suspendendo, constringendo, &c. respi-

[illegible]

C 5 prop[illegible]

EXPLICATIO TABULÆ.

Figura I.

ABCD *Fibra motrix rectilinea*
BC *Caro.*
ABCD *Tendines.*

Figura II.

ABCD *Fibra motrix rectilinea inflexa* [illegible]
ABC, BCD *Anguli alterni obtusi.*

Figura III.

E[illegible] *aequa*[illegible] *et aqua* [illegible] *tus* [illegible]

Figura IV.

E[illegible] *motrice* [illegible] *aequaliter utrinque inflexa, sed nondum* [illegible]

Figura V.

E[illegible] *quomodo in* [illegible] *est parallelogrammum carneum* [illegible] *tendinum. Inter carne* [illegible] *sunt, quo* [illegible] *con-spiciantur.*

Figura VI.

Exhibet fibras motrices [illegible] *et aqu*[illegible] *com*[illegible] *rectangulum carneum est.* ABKI [illegible] ICLM *duo rectangula tendinum.*

Figura VII.

Exhibet mu[illegible] *compositum.* AL *primus ordo est* [illegible] *parallelis* [illegible]

[illegible] voluntarium motum habent, pars in natu[illegible]

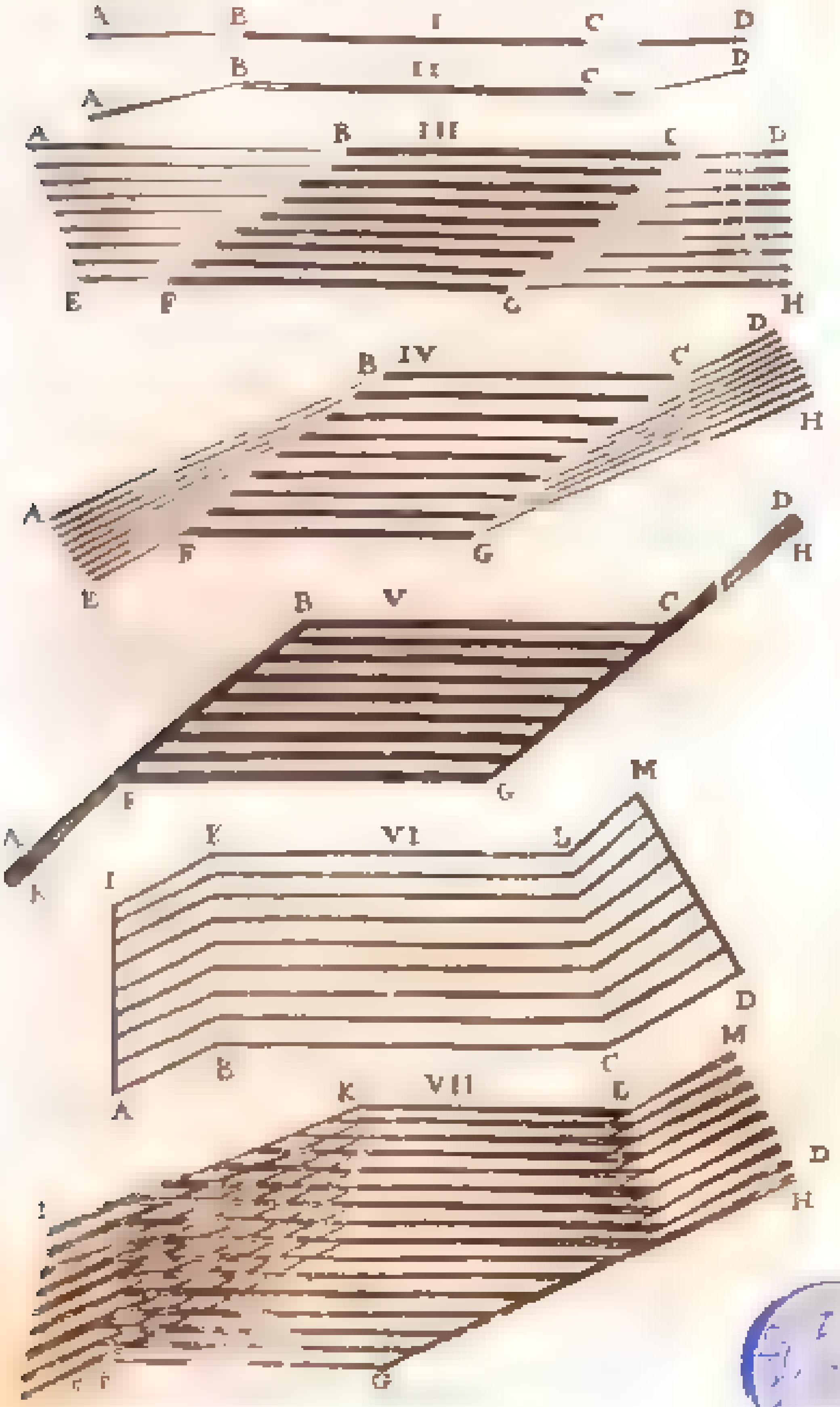
[illegible] *Primaria* [illegible]

[illegible] nota, [illegible]

Motus causa prima[illegible] [illegible] *bus aut* [illegible]

[illegible]

Tabula III.


I
A
B
C
D
II
A
B
C
D
III
A
B
C
D
E
F
G
H
IV
A
B
C
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V
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G
H
VI
A
B
C
D
I
K
L
M
VII
I
K
L
M
D
H
G

[illegible] particulis salinis, [illegible] erunt spiritus ani[illegible] subito intume[illegible] vel [illegible] fe[illegible]

An à sanguine?

S[illegible] copio[illegible] [illegible] & [illegible] per fibra[illegible] de[illegible] ue in equis quæus[illegible] [illegible] 2. Ex *Aquapendente* [illegible] conve[illegible] flu[illegible] fluente, [illegible] *Fallopio*, [illegible] pars [illegible] si quæ, præter fibras, [illegible] 4. Posita hac causa, commodam da[illegible] Sc[illegible] [illegible] & [illegible] deficat.

An à spiritibus influentibus?

Spiritus [illegible] *influentes* defendit cum Aristotele *Petrus* *Pe*[illegible] motus fieri ab imaginatione, con[illegible] & artus omnes moveant. Inficum enim esse [illegible] M[illegible] tum concipere, & [illegible] ratra impetum capiat, obnitensque [illegible] quo is luctatur, eaque [illegible] *Petrus*. Imaginat os [illegible] concessorum, quæ[illegible] enim *Cardanus*, *Scaligero* [illegible]

male

[illegible] *Libell. de Nervis.*

A [illegible] fibrarum contra- *Secundaria à fibrarũ contractione.*
ctio concurrit, ut *causa secundaria*, seu promptum illarum [illegible] spiritus animales, sicut ego in- [illegible] ei istius qui in eum inferitur, [illegible] brachium movere, [illegible]

Rationem [illegible] per *Cartesium* [illegible] *Ratio motus Cartesii.* [illegible]

[illegible] sit æqualis, instar [illegible] & [illegible] nitantur per tubulos unius [illegible] contra [illegible] spiritu consensus est. De modo influxus [illegible] Cartesiana [illegible] possent in [illegible] *Cartesium* [illegible] *Ex humine animali.* [illegible]

[illegible]

[illegible] ...dum nusquam reperitur. Sed de car-... [illegible] ...Aristoteles... [illegible]

CAP. VI.

DE MUSCULIS ABDOMINIS.

M[illegible]

[illegible]

volutos in embryone invenit N. Fontanus.

[illegible]

Est autem Linea Alba, cui al[illegible] tendinum musculorum [illegible] rectorum. Nam tendines obliquorum [illegible] ab utraque parte, ut quasi [illegible] abdom[illegible] [illegible] tendo [illegible]

[illegible]

FIGURÆ EXPLICATIO

Musculum abdominis obliquè descendentem, extra situm, reliquos in situ ostendit, ex *Casserio*.

A. *In sinistro latere pars musculi obliquè descendentis in suo situ.*

AAA. *Obliquè descendentes musculi, extra situm positum in dextro latere remoti principium, ut & nervorum [illegible] insertio, fibrarumque obliquus ductus.*

BB. *Musculi recti, ex quibus duo supra umbilicum N. reperiuntur, unus infra.*

C. *Pars [illegible] venter, obliquè descendentis musculi hic dejecta, [illegible] autem ejus tenuis tendo [illegible] membranosus.*

DD. *Foramen in tendine [illegible] musculi, per quod vasa spermatica in [illegible], ut scrotum [illegible].*

E. *Musculus obliquè ascendens in suo situ, cum fibris ad superiora excurrentibus.*

F. *Principium carnosum obliquè ascendentium musculorum, ab [illegible] seu appendice [illegible].*

G. *[illegible]*

HH. *[illegible] circa quam tendines [illegible] abdominis musculorum incipiunt [illegible].*

II. *Recti musculi, [illegible] obliquè ascendentis [illegible].*

KK. *Processus [illegible] vasa spermatica involventes, & in scrotum descendentes.*

LL. *Perforationes [illegible] musculorum ascendentis & recti [illegible], ad vasorum spermaticorum egressum.*

M. *Glandulæ inguinis detectæ.*

N. *Umbilicus.*

OOO. *Linea alba abdominis.*

P. *Femora prope [illegible].*

Q. *Penis, seu virga.*

1.2.3.4.5. *Nervi qui sub [illegible] costis [illegible] obliquè descendentem musculum distribuendi egrediuntur.*

9.10.11.12. *Inferiores 4. costæ.*

aaa *Fibræ obliquè [illegible] musculi.*

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[illegible]

[illegible] Recti [illegible] Musc[illegible] [illegible] Veni Ep[illegible] [illegible] & M[illegible] [illegible] part [illegible] Mus[illegible] Pyra[illegible] dales [illegible]

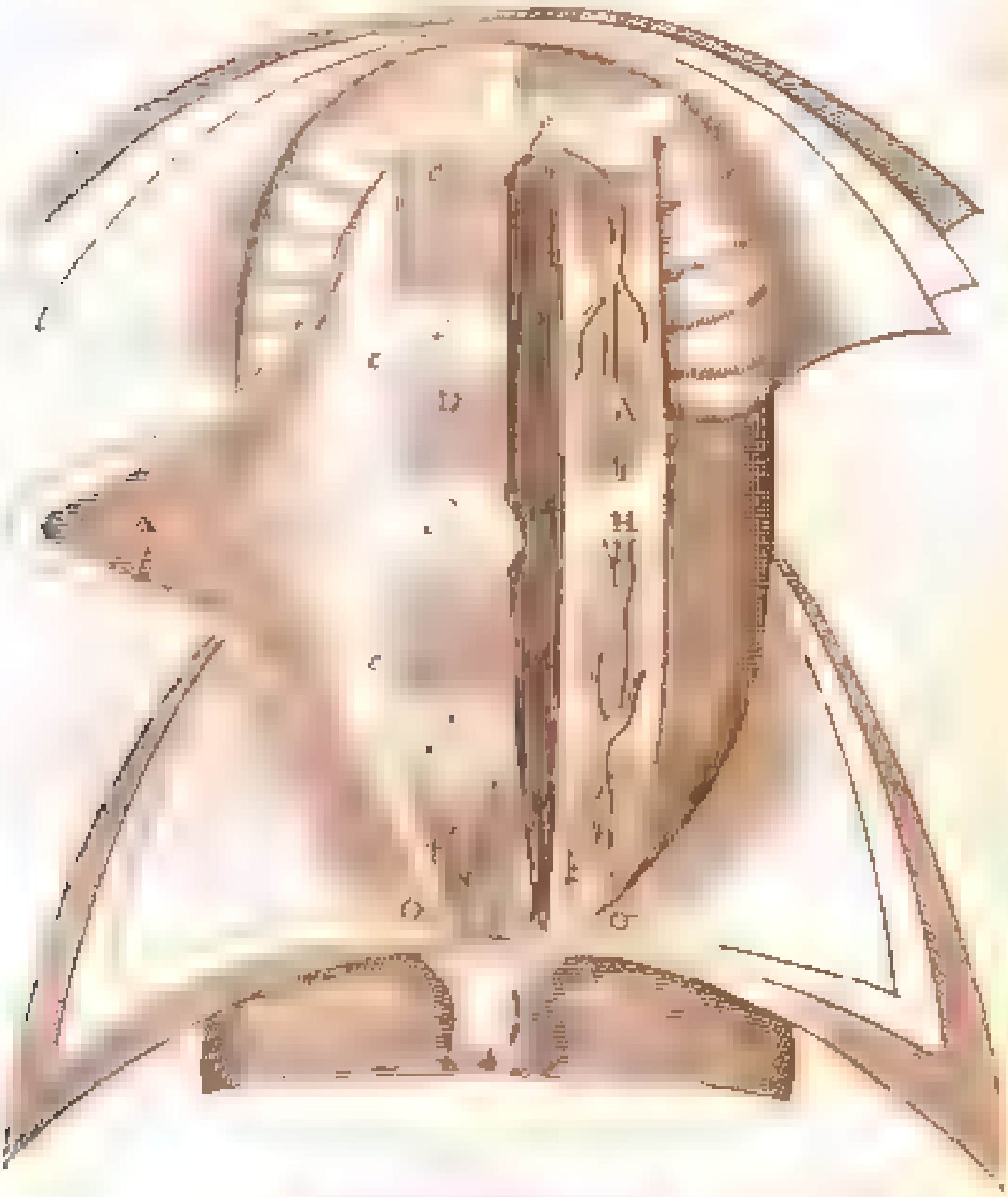
A. [illegible]
B. Principium [illegible]
C. [illegible] pars.
D. Musculus [illegible]
E. Principium ejus.
FFF [illegible]
[illegible]
G [illegible]
H. [illegible]
LL. Anastomosin venarum seu concursum.
MM. Peritonaeum musculis denudatum.
NNN. Musculi pyramidales.
OO. [illegible]

[illegible]

[illegible] quae descendens [illegible] [illegible] venas. Resp. Res[illegible] [illegible]

[illegible]

TABULA V.



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FIGURÆ EXPLICATIO.

Exhibet [illegible] tabula M[illegible] [illegible] [illegible] a principiis [illegible] [illegible] [illegible] [illegible] [illegible]

A *Mu[illegible] abd[illegible] [illegible] principium separatus, in quo*

bbb. *Principium.*

cc. *Partes [illegible] aperta.*

DDDD *M[illegible]*

E. *[illegible]*

f *R[illegible] inferior extrem[illegible] pubis [illegible] rens.*

gh. *[illegible] ex quibus [illegible] venam, h. arteriam denotat.*

i. *Extrem[illegible] superius de[illegible]*

kk. *M[illegible]*

l *Te[illegible]*

MM *M[illegible]*

nn *Principium [illegible]*

OOO *Princ[illegible] dem[illegible]*

ppp *Ten[illegible]*

q *N[illegible]*

rr *P[illegible] [illegible], qua transversa[illegible] abscisse.*

SSSS. *Costæ.*

TT *M[illegible]*

T. *Os sternum siue pectoris.*

XX *Cutis separata dependens.*

Y. *S[illegible] duas.*

Z. *Musculi quadam[illegible]*

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[illegible]
musculorum ope suspicatur.

Secundum par est OBLIQUUS ASCENDENS, seu internus, [illegible] *figuram* habet triquetram.

Princ. [illegible] *Principium* [illegible] ossis facit.

[illegible]

Tertium par [illegible]

In [illegible]

[illegible]

[illegible] cum eodem arcens.

[illegible] *Venæ.*

curret, [illegible]

[illegible] altera, Epigastrica, quæ in mulieribus [illegible] superiorum venam, quam antequam attingat, ut [illegible] Nonnunquam tamen hæ duæ venæ [illegible] ad venerem incitantur [illegible]

Arterias accipiunt recte ab Ep[illegible] *Nervos* [illegible] *Arteriæ & Nervi.*

[illegible] pectus ad pubis ossa, & pubis [illegible]

[illegible] *Pyramidales.*

[illegible] Esse vero peculiares [illegible] cum rectis.

Oriuntur principio carnoso, [illegible] osse pubis, ubi etiam [illegible] ascendunt, tanto [illegible] *Eorum ortus.*

[illegible]

[illegible] *Rule-* [illegible]

Usus Pancreatis. [illegible]

[illegible]

[illegible]

Musculi transversi. *Quintum par* [illegible] *oritur* [illegible] comprimere.

Actio musculorum abdominis. *Cur musculi abdominis* [illegible] *Actio* [illegible]

[illegible] *expositos.**

2. [illegible]

[illegible] patet ex fabrica. Sed [illegible] thoracis motus, quando

[illegible]

[illegible] deformes sunt obesi, hydropici, graciles, &c.

Cap. VII.

DE PERITONÆO.

A[illegible] (Peritonæum unde dicatur?)

[illegible] sunt.

[illegible] ventris investiens. (Peritonæum quid?)

[illegible]

[illegible] alij a meningibus cerebri.

[illegible] (Finis, Figura & magnitudo)

[illegible] (Superficies.)

[illegible] (Ortus)

[illegible] unu, ut si rumpatur, separari [illegible] est

[illegible] (Connexio Peritonæi)

[illegible] eorum tendinibus.

[illegible] Laurentius [illegible] Cabrol [illegible] omnes

FIGURÆ EXPLICATIO.

[illegible] cum [illegible] processibus expressum est, sub quo ventris inferioris viscera pleraque transparent.

AAAA. *Quatuor communia corporis tegumenta decussatim deflexa.*

B[illegible]. *Musculi ab [illegible] eodem modo deflexi.*

CC. *Os pectoris, seu sternum.*

D. *Cartilago ensiformis.*

EEFF. *Peritonaeum universum [illegible] ventris [illegible] tenuitatem [illegible] quod [illegible] transparere videntur.*

FF. *[illegible] sub Peritonaeo [illegible] adumbratum.*

a. *[illegible] in quam vena umbilicalis [illegible] inferitur.*

GG. *Ventriculi obscura effigies.*

HH. *[illegible] imago.*

IIII. *[illegible] anfractibus obscure [illegible] apparentes.*

K. *Umbilicus.*

L. *[illegible] Peritonaei involucro liberata.*

MM. *Arteriae duae [illegible].*

N. *Urachus.*

OO. *[illegible] ad [illegible] fundum, par [illegible] ad [illegible].*

P[illegible]. *Processus Peritonaei, [illegible] vasa praeparantia [illegible].*

QQ. *Testium musculi [illegible] suo [illegible], in quibus [illegible] suo [illegible] cernuntur, [illegible] vero separatus dependet.*

RR. *Testes scroto exemti.*

S. *Os pubis.*

T. *Penis.*

V. *Externa vena Epigastrica.*

Arteria Epigastrica, [illegible] vena [illegible].

[illegible] *Vena Epigastrica [illegible] quadam.*

[illegible] *Arteria [illegible] quadam.*

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[illegible] ... vatur: idque in hunc usum – 1. Ut [illegible] membrana, ubi gravatur. 2. Ut vasa umbilicalia [illegible] peritonæum duplicatum permeant [illegible]

Proc [illegible] ... sta per Peritonæum, abdominis [illegible]

Proc [illegible] ...

Hinc [illegible] *causa.* [illegible] ...

Vasa. [illegible] ... expe[illegible].

Usus Peritonæi. Usus Peritonæi est [illegible] qui membranarum in genere. 1. [illegible] ... nam omnia viscera infimi ventris [illegible] ... & [illegible] omentum & mesenterium. Peritonæum [illegible] ... vasa [illegible] ...

2. [illegible] ... Hinc secundum membranam [illegible]

[illegible]

[illegible] Promovere musculorum abdominis actiones, ex *Galeno*.

Cap. VIII.

DE OMENTO.

S[illegible] *Omenti etymon.*

[illegible]

[illegible] ad ventriculi fundum, in- *Situs.*
[illegible] anfractus involvit, & [illegible]

[illegible] *Connexio.*
[illegible] in fatua Neapoli hagabitis doctrinæ vir, *Marcus Aurelius* [illegible] & quando intercedit fun[illegible] *S[illegible] causa.*
[illegible]

[illegible] *[illegible] omenti in ftrangulatione.* [illegible] one, cum in ftrangu- [illegible] *Coiterus.* [illegible] *Cœsphanu.* [illegible]

[illegible] *In Infante.* [illegible] & in de- [illegible]

[illegible] *Ortus.* [illegible]

[illegible] *Partes.* [illegible] colo [illegible], & [illegible]

FIGURÆ EXPLICATIO

[illegible] & [illegible] representat.

A A. *Abdom[illegible] & undique reflexa, ut interiora veniant in [illegible].*

B [illegible]

C C [illegible]

D [illegible]

E E *Coli intestini pars sub ventriculo sita.*

F F [illegible]

G *Umbilicus.*

H H *Vena umbilicalis*

I I. *Arteriæ duæ umbilicales.*

K. *Urachus.*

L [illegible]

a a [illegible] *omentum & ventriculum* [illegible] *Intestina.*

[illegible]

Figura. *Figura* [illegible]

Magnitudo. [illegible] omentum quinque [illegible] omentum [illegible]

Situs. [illegible] & [illegible]

[illegible]

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FIGURÆ EXPLICATIO.

Tabula [illegible] inferiorem [illegible] Mesenterium [illegible] adjunctis intestinis & glandulis, ex *Casserio.*

A AA. *Omenti membrana inferior ex qua Colon suspenditur* [illegible] *Vasa Epiploica.*

BB. *Coli pars.*

CC. [illegible]

D D. D. *Mesenterium.*

EEE. *Glandulæ Mesenterij minores.*

F. *Glandula maxima Mesenterij in ipsius medio* [illegible]*, Pancreas Asellio dicta.*

G [illegible] *Mesenterii.*

HH. *Intestina tenuia & crassa*

Vesica urinaria fundus

KK. *Arteriæ umbilicales.*

L. *Urachus.*

M. *Umbilicus* [illegible]

[illegible] *Quem adipem sæpe* [illegible] *Laborantibus,*

[illegible]

Nosocomio Leydensi [illegible]

Substantia Omenti. Substantia Omenti [illegible] observatione *Malpighij* [illegible] [illegible] [illegible] [illegible] [illegible]

Quæ aetur [illegible] [illegible] [illegible]

[illegible]

vinosa

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[illegible]

Usus. [illegible] ... tanquam partia [illegible] ... Galenus [illegible] ... facile à frigore lædebatur, quare ventrem [illegible] tempo[illegible] ... Est itaque [illegible] ventriculo [illegible] ... Forestus, & [illegible] Riolanus, [illegible] ... commodo [illegible] ... re alimento ac [illegible] ... gato. Alioquin illius [illegible] ... tenia, phthisis, & alia [illegible]

2. Membranæ [illegible] Vesalio, [illegible] ramos venæ, & arteriæ [illegible] ... colon & lien [illegible] ... in [illegible]

3. *Joh. Vesalius* [illegible] ... rum majori copia [illegible] ... [illegible] ad cor redire possit.

5. *Corda.* [illegible] MM [illegible] ... pere, quasi ruminationis gratia.

CAP. IX.

DE VENTRICULO.

Ventriculi etymon VEntriculus [illegible]

Situs [illegible] est in epigastrio, [illegible]

[illegible]

funda

[illegible]
nelium dandum.

[illegible] est in homine, & animalibus utramque [illegible]

[illegible]
fas in interiore gulæ tunica volunt [illegible]
[illegible]

[illegible] vicem pervij.

[illegible] *habet duo*, & [illegible] culi regione.

Sinistrum [illegible]

[illegible]

Indomantur autem capiti propter [illegible]

[illegible]

FIGURÆ EXPLICATIO.

Nervi stomachici hîc exprimuntur.

A. *Ventriculus.*
B. *Gula seu œsophagus.*
C. *Ventriculi sinistra pars amplior.*
D. [illegible]
E. [illegible]
F. *Nervus sexti paris externus similiter.*
G. *Vasa Gastrica fundum perreptantia.*
H. *Orificium ventriculi inferius, Pylorus.*

An ... aliquid ... inferiora? [illegible]

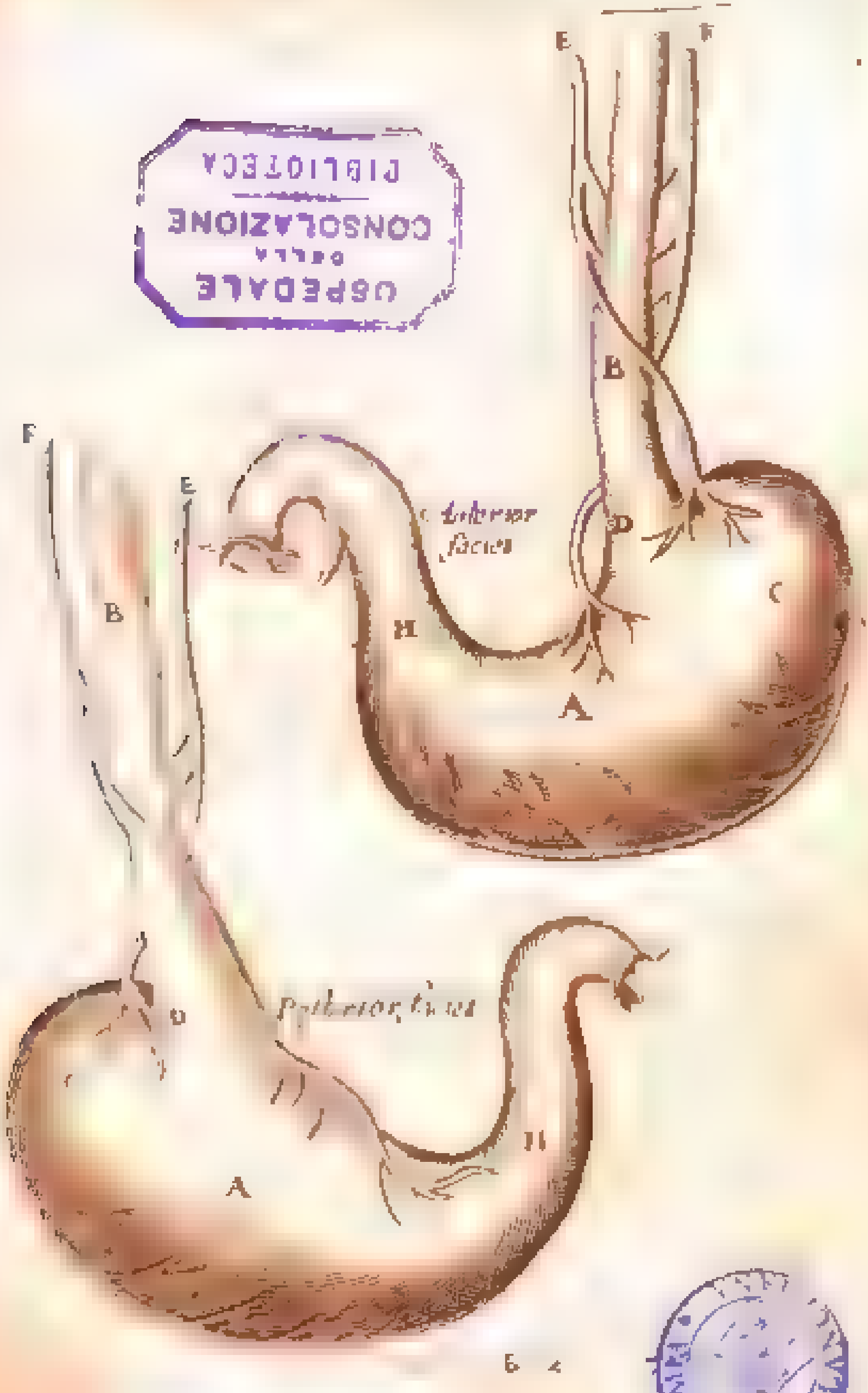
Ventriculi ... utrumque [illegible]

Numerus [illegible] ... concedit. Nos tamen ... experientia duce & ratione, omnis [illegible]

[illegible]

[illegible] ... tiam ... & crassitudinem inter eas, ... à pe- [illegible] ... Quam

TABULA X.



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At vero vena [illegible] in sinistro latere sub diaphragmate in- [illegible]

[illegible] de ista habet Tulpius, quem examinat Riolanus [illegible]

[illegible] Vide Galenum in commento contra Marinum. [illegible]

[illegible] & truncis cavæ atque arteriæ defectuosus. [illegible]

[illegible] contracta & corrugatus [illegible]

[illegible] angius est spatium, quam faciei vel pectoris. [illegible]

[illegible]

 quidam

[illegible] concoquunt, vel hunc defectum alius [illegible]

An ad appetitum vel excitandum factae fames ex vene rejectas.

[illegible] *Hippocrates*, & *Celsus* [illegible] *Riolanus*. *Alii* [illegible] probant *Cortesius*, *Joan Daniel Horstius* [illegible] *Hogelandio* [illegible]

Deinde a [illegible] gastricum [illegible] & [illegible]

[illegible] *Paulus Emmenus* & *Aquapend.* [illegible] qui nimium bibere, statim [illegible] alias rumperetur fere ventriculus [illegible] ingesta. 3. ideo eiusdem [illegible]

Per gastricas cur non deferri.

[illegible] *Hist. Lact. Thor.* Licet vero [illegible]

gastricam

[illegible]

Hunc sanguinem, *Sylvius* [illegible] [illegible] *An per spongiosam membranam imbibantur?*

[illegible]

[illegible] observarunt *Galenus, Vesalius, Fernelius, Casserius.* Dicuntur [illegible]

Arterias [illegible] a Cœliaca, venas [illegible] sanguis a corde [illegible] & [illegible] rumpant [illegible] *Vesal.* & *Fapelius* [illegible] in hoc [illegible] & [illegible] vel [illegible] absentia, quod *Riolanus* faciles largiuntur.

Nervos [illegible] sexto pari [illegible] ramis [illegible] posterioris thorace [illegible] productus, [illegible] *Nervi.*

[illegible] Ab [illegible]

[illegible] *Plexum nervosum* [illegible] *Plexus nervosus.*

[illegible] *Bochinus.*

[illegible]

[illegible]

[illegible]

cedunt, *Willisio* demonstrante in figuris.

Vasa Lymphatica itaque ventriculi [illegible] *Rudbeckius* per ventriculum discurrentia, [illegible]

Ventriculi fermentatio. Con[illegible] in ventriculo [illegible] *fermentatio* [illegible]

Ex Hippocrate [illegible]

[illegible] Hippocratem [illegible]

[illegible] frigidiores [illegible].

Neces[illegible]

[illegible] Maur. Helvetius. [illegible] separant. Incidendi [illegible] Severinus, quod ante ex Hippocrate & Galeno [illegible]

[illegible] Major [illegible] culum deferatur, & de quo Melanchon [illegible]

[illegible]

[illegible] gelatus [illegible]

[illegible]

[illegible]

An fa-lium. [illegible]

Vel aci-dum. [illegible]

ex cavitate ventriculi chylus, [illegible] & [illegible] prehenderetur, [illegible]

Vel ama-ro falso-rum. [illegible] *per L. Glisso*, [illegible]

Quomo-do a ca-lore de-pendeat [illegible] difficulter fermentatur, in calido [illegible]

Calori primas partes defert [illegible] bum ut quorundam [illegible] & calefac, [illegible] horem hunc ex san-guine esse & aque fortis officio fungi.

Au-Tores de suis fer-mentis. Confir-matur. [illegible] lido loco exponunt, addito fer[illegible] mentationem [illegible] dum. Quod [illegible]

Tria ad [illegible] requirit *Joannes Walaeus,*

[illegible] potum [illegible] & [illegible], ac humor [illegible] flat [illegible] bus [illegible] & [illegible]. Nam [illegible] tertiæ coctionis crustæ adhærentia, tanquam [illegible] adhuc nutritorum vi, aliquid cum cæteris cont[illegible] [illegible] livam vero, præter diluendi munus, alio nobi[illegible] in ipsa concoctione, nempe in ore cibum præpara[illegible] coloris mutatio; lichenes alibi in corpore [illegible] & [illegible] *Cartesius* [illegible] in ore [illegible] promoveat. [illegible] las vero [illegible] fermen[illegible] Hanc fermento comparat *Hofmannus*, potius aquæ quam effundunt pistores.

[illegible] succo fieri, per [illegible] fermenta[illegible] *H. Regius.* [illegible] credit post chyli expulsio[illegible] ventriculum [illegible] Sed tamen [illegible] succus [illegible] Ad hæc [illegible] repleto ventriculo. [illegible] & non [illegible] tionibus [illegible] ferri, & turbas ciere.

ACTIO ventriculi est *coctio*, quæ Chylificatio dicitur. [illegible] ventricul[illegible] concoctioni [illegible] cujus coctionis principium & præparatio fit in ore, [illegible] [illegible] ventriculi [illegible] quæ [illegible] *Hygmorus* [illegible] *Walæi* Epistolas, quas jam citavimus. *Coctio.* *Coctio quomodo fiat.*

[illegible] est [illegible] & potum [illegible] contundere & *Usus* [illegible] gens

[illegible] ejus insignem & amplam.

Cap. X.

DE INTESTINIS IN GENERE

I[illegible]

Nomen. *Nomen* [illegible] quia hæc [illegible]

Magnitudo. *Magnitudo* [illegible] & substantiæ [illegible] Pondus om- [illegible]

[illegible] distributione, si flatus elaberetur, [illegible]

[illegible]

Situs

[illegible] in dissectis hydropica vidi.

Connexio

Tunicæ

Crassities

[illegible]

FIGURÆ EXPLICATIO

Ventriculus apertus, & simul cum ipso & continua intestina naturali quadantenus situ spectantur.

A. *OEsophagus.*
B. *Orificium ventriculi superius.*
LL. *Nervi stomachici hoc orificium amplectentes rudi modo expressi.*
C. *Pylorus.*
DDD. *Tunica communis ventriculi separata.*
E. *Tunica ventriculi propria prima, quæ nervea est.*
F. *Tunica ventriculi propria secunda, quæ interna & rugosa.*
G. *Duodeni portio.*
H. *Mesenterii [illegible].*
IIII. *Intestina, tum jejunum, tum ileum, cum vasculis perreptantibus.*
K. *Intestinum cæcum seu appendicula vermiformis.*
LLLL. *Intestinum colon.*
M. *Fistula in principio coli aperta.*
mmm. *Ligamentum coli cellulas continens.*
NN. *Intestinum rectum videtur, [illegible] ipsi incumbentibus [illegible]*
O. *Sphincter ani.*
PP. *Musculi levatores ani.*

tur, [illegible] omnis [illegible] oblique [illegible] transversas fibras habet. [illegible] sanguinem tutelam [illegible] [illegible] tubus, [illegible] partes [illegible] [illegible].

[illegible] hanc lubricare [illegible].

[illegible] & pro- [illegible] primi [illegible] glandulas mesenterii ad Recepta- [illegible] a *vena porta*, quas sanguinem afferre [illegible]

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[illegible]

[illegible] excutitur, relictis in sacco furfuribus. [illegible]

Dividuntur communiter intestina [illegible] *in tenuia* [illegible] *& crassa* [illegible] figura & officio, plura esse dicuntur.

[illegible]

D

[illegible] *Per* [illegible] *Lindanus* [illegible]. In [illegible] *De* [illegible] [illegible] *A. Harve*, [illegible] naturæ, [illegible] [illegible]orum naturalium, ab hoc vomitionem quamlibet.

[illegible] pro fæcibus [illegible] ceterent [illegible] *Coe* [illegible]

[illegible] ut [illegible] ex [illegible] *Tenuium* vero [illegible] chyli [illegible] *stomachus*, in quo post *Coctum* [illegible] ductu [illegible] intestino, & [illegible] *Crassorum* [illegible] feces continere, [illegible] flatus, & [illegible] ab [illegible] vel pancreate venientem. *Usus secundarius* [illegible] [illegible] *Mo*[illegible]

CAP. X.

DE INTESTINIS IN SPECIE.

P*rimum* tenue intestinum [illegible] pa[illegible] [illegible] in canibus, dicitur DUODENUM, [illegible] *Duodenum* [illegible] [illegible] complexi.

Produ[illegible] [illegible] membranosa [illegible]

FIGURARUM EXPLICATIO

Intestinorum tunicæ, & vasa in hac tabula sunt expressa.

FIG. I. Intesti[illegible] cum vasis [illegible].

A A. *Intestini portio adhuc [illegible].*
B B. *Tunica intestinorum externa separata, ut vasorum sub ea ductus cernantur.*
C C. *[illegible] propriarum prima.*
D E F. *Vasa mesenterica, quibus D. venam, E. arteriam, F. nervum innuit.*

FIG. II. [illegible] ex [illegible].

G G. *Tunica intestinorum [illegible] separata.*
H. *Tunica intestinorum [illegible].*

FIGURA III.

I. *Interior intestinorum tunica cum suis poris eleganter expressa.*

FIG. IV. Exhibet [illegible].

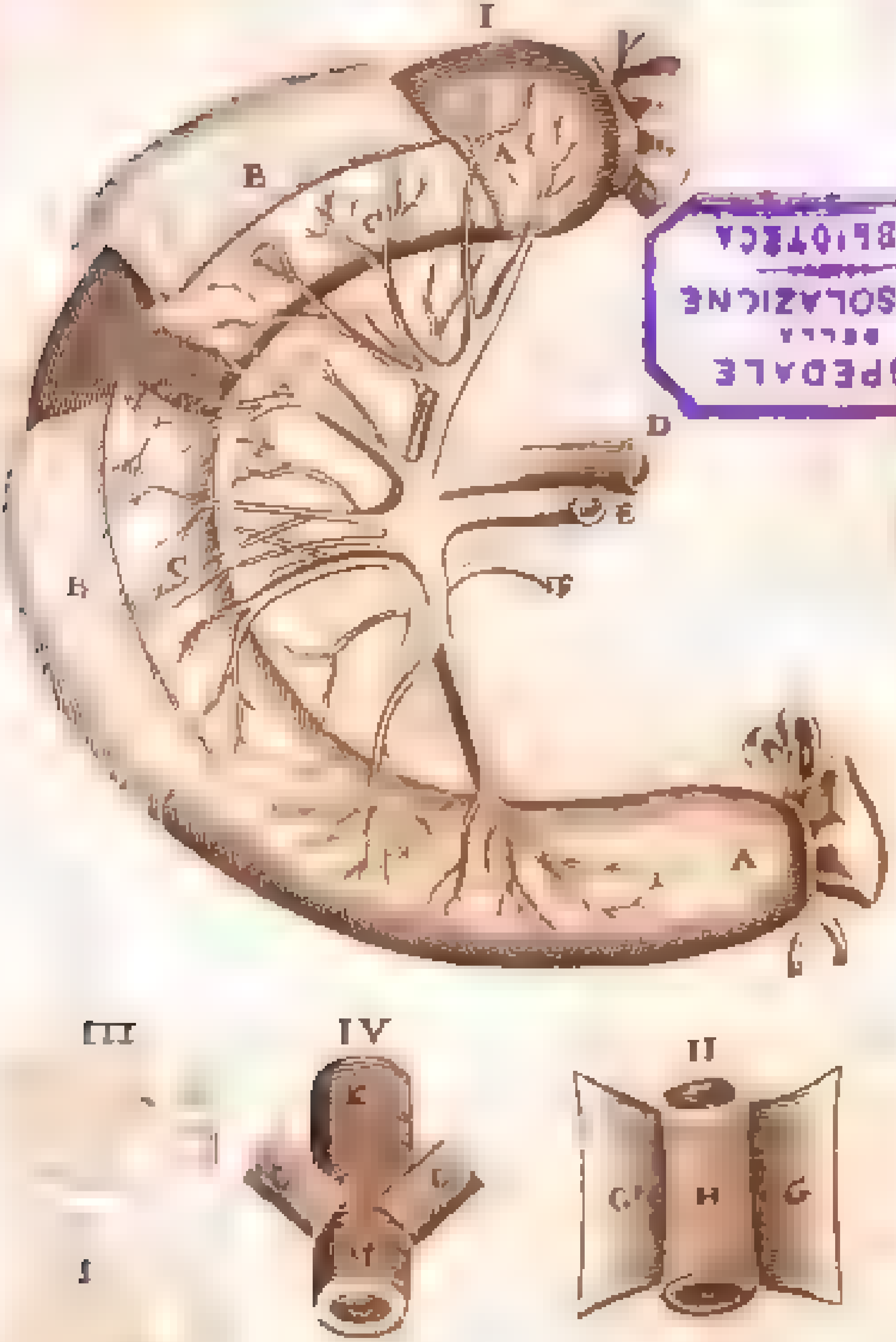
K. *Recti intestini portio.*
L L. *Musculi duo levatores ani.*
M. *Sphincter ani.*

quæ circumvolutione, & *terminatur* [illegible]

Crassus [illegible] & [illegible] *æquiponderat* [illegible] *crassi manuum.*

[illegible] *Inter* [illegible] *foramen* [illegible] loco [illegible] *Vir, magnus* [illegible] *Sim.* [illegible] *cit demum* [illegible] *Spigelius* [illegible]

tamen



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[illegible] *Wharteus* insipidum dicit contra experientiam [illegible]

Venam habet propriam Duodenam, & nutritas [illegible]

Arteriam à dextro Cœliacæ ramo.

Nervos exiguos à stomachicis.

Secundum JEJUNUM dicitur, quia, ut plurimum [illegible]

[illegible] 1. Ob liquiditatem transeuntis chyli; [illegible]

[illegible] ad duodeni finem poros bilarios, à jecore ad- [illegible] ad excitandam expulsionem.

[illegible] ejus interior exterior longior est, unde [illegible]

[illegible] in frequentis jejunium falso asserit *Riolanus*, ab [illegible], qui vel vitio oculorum non viderunt, vel [illegible] vacuum videri ob hepatis viciniam.

[illegible] gracile fit prope ileon.

Venas habet à dextra mesenterica, reliq[illegible] [illegible] ctum exceptas, communes, sicut & [illegible]

[illegible] porriguntur.

Tertium ILEON dicitur ἀπὸ τοῦ εἰλεῖν à circumvolvendo [illegible]

[illegible]

F[illegible] ad Cæcum.

[illegible]

L[illegible]issimum est intestinum, viginti quam palmos [illegible]

[illegible] mos circiter, & latum digitum parvum, ubi inflectur [illegible]

[illegible]

[illegible]

[illegible] *Crassa intestina.* [illegible] tres a ieiuno [illegible] in hoc intestino notanda. [illegible] *Caecum.* Ob usum [illegible] *Caecū.* [illegible], quem habet [illegible] respectu dictum. [illegible] est coniectura, [illegible] quibusdam animal[illegible] [illegible] hanc membranam nō [illegible] caecum intestinum structius est [illegible] distendi possit. [illegible]

[illegible] In avibus *Quandrupes.* [illegible] numero anserum. Deficit [illegible] In Anate duo [illegible] *Paulo* in Cygno [illegible] [illegible] angustissima est [illegible] In Leone [illegible] *Massa* [illegible] [illegible] liquidae sordes caecum [illegible]

[illegible]

[illegible]

[illegible] *Amstelodami* [illegible]

[illegible] provenit.

[illegible] nostram colon collocant.

[illegible] est, non ut sit [illegible] quod *Hofmanno* vi- [illegible] dolores, & semper excernere [illegible] quibusdã crediderunt fœces & ossa cerasorum [illegible] post diu excreta delitescere. *Conciliator* [illegible]

[illegible] tat, ut & ipsa in fœces abeat nec putrescat.

2 [illegible]

3 [illegible] fœtorem sustinemus, ne deciduit [illegible] in quodã Pharmacopœo juxta inguen [illegible] vavit *Riolanus*, & in puerulis in [illegible] cum, quibus ossa ia- [illegible]

4. [illegible] *Highmoro* est quasi diverticulum quoddã [illegible]

[illegible] semper & maxim-

... quotidiana & flatu conquerente, quoties vel [illegible]

[illegible]

Galen. [illegible]

... magnum lumbus.

Situs ejus varius est, nam *principium* ejus, quod caput est & rotundum, est in dextro Ilio, cæco ortum, [illegible] *Colo progressu*

[illegible]

... in sinistro latere graviores, advertente *Galb.* [illegible]

[illegible]

... facit etiam ejus magnitudo & [illegible]

Longum est communiter palmas [illegible] vel novem. *Latissimum* vero & amplissimum omnium.

[illegible]

dum. [illegible] *Riolanus* [illegible] *Marchettus* [illegible]

[illegible] *Riolanus* & [illegible] le sunt enim naturales.

Valvula in colo. Ad colo initium [illegible] *valvula* [illegible] *Alberti* [illegible] *Schenckii* [illegible] *Valvulæ* [illegible] Anno 1582. [illegible] *Riolanus* [illegible] *Bauhino* [illegible]

Quomodo inveniatur. In [illegible] semper rectum infusa aqua vel flatus in [illegible] nihil labefactatur.

[illegible] *Bauhinus* [illegible] *Aquapendens* [illegible] *Hildanum* [illegible]

Z. hic

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FIGURÆ EXPLICATIO.

[illegible] ex *Intestino* [illegible].

a. [illegible]
b. Cæcum.
c. [illegible]
dddd. [illegible] pendula.
e. [illegible]
ff. [illegible]
gg. Interior coli tunica.
hhh. Valvula eleuata.
i. [illegible]
kkk. [illegible]
l. Nexus cum Ileo.

FIGURARUM EXPLICATIO.

FIGURA I.

Pars I[illegible] jejuni [illegible] valvulis [illegible] conniventibus [illegible]

A. Pars intestini jejuni.
B. Interior facies intestini.
C. Pars quædam resecta ut facies interior apparere possit.
[illegible] &c. Valvulæ conniventes.
[illegible] &c. Vestigia valvularum conniventium exter[illegible]
[illegible].

FIGURA II.

P[illegible] aliter delineata, ut clarius valvularum conniventium Figura conspici possit.

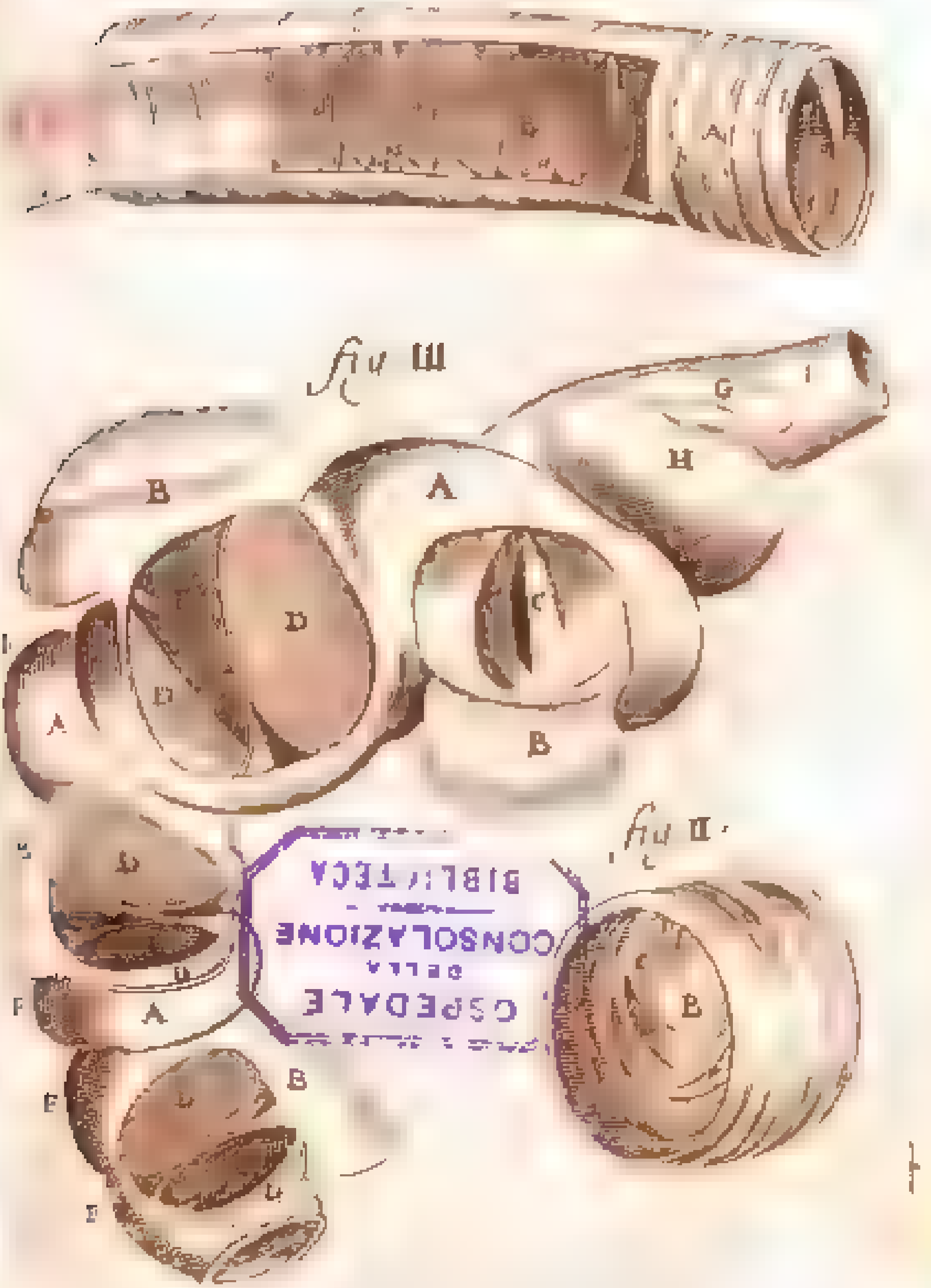
A. Exterior jejuni facies.
B. Interior [illegible] jejuni.
C C C [illegible] &c. Valvulæ conniventes.

FIGURA III.

S[illegible] col[illegible] [illegible] conniventes, cum cellulis proponens.

A A A. Superficies coli exterior.
B B B. Partes coli resectæ ut interior [illegible] possit.
C C. Felicitas [illegible] quibus valvula constat [illegible] se invicem [illegible] cavitas [illegible] videri possit, quanquam [illegible] minus [illegible], quam [illegible] haberent.
D D D. &c. [illegible].
E E E. &c. [illegible] conniventes aperta.
F F F. &c. Cellulæ, quas externum ligamentum efformat, [illegible].
G. Intestinum Cæcum, id est, appendicula instar vermis [illegible].
H. Antiquorum intestinum Cæcum.
I. [illegible].

TABELLA XIV



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Z[illegible] *Amst. Adamo* [illegible] Ar[illegible] [illegible] stenit [illegible]. T[illegible] valvula [illegible] [illegible] *Nic. Tulpius*, quam [illegible] quo [illegible] membrana [illegible] digitos [illegible] & [illegible] [illegible] occlude[illegible] [illegible] A[illegible] penetr[illegible] [illegible], vel [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] & [illegible] [illegible] [illegible] figura. Membrana vero haec annectitur superius [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].

Ejus vera descriptio.

Usus est [illegible] tenere [illegible] valula [illegible] postea vomitus [illegible] [illegible]. Hinc [illegible] Clysmatum ad tenuia [illegible].

Vasculis *mesentericis* [illegible] *Kerkringius*. [illegible]

Venas habet & *arterias* [illegible] Epiploide postica. [illegible] nam & a Mesenterii [illegible] nam, venas quoque *lacteas*, sed paucas.

Rectum.

Ultimum [illegible] Ba[illegible] [illegible] *dictum* [illegible] [illegible] [illegible] lateribus [illegible] [illegible] [illegible] [illegible] rectum per p[illegible]

[illegible] est, [illegible] cum [illegible], *latum* [illegible] & [illegible] *crassum*, habens [illegible]

[illegible] a ramo hypogastrico venæ cavæ & hæmorrhoidales [illegible]

[illegible]

[illegible] reddunt, ut [illegible]

[illegible] vel Anus, tres habens mus- [illegible] quinque consi [illegible] possunt. *De ano*

[illegible] *Sphincter*, vel ani constrictor, orbicularis [illegible] satis latus, ut licet pars [illegible] vel aliis [illegible] totus [illegible] penitus tollatur. *Sphin-*

[illegible]

[illegible] & alii, [illegible] superior est [illegible] in fronte sit & palpebris [illegible] vel carnosam [illegible]

[illegible] vertebris ossis sacri, & fibris transversis [illegible]

[illegible] Vesicæ meatus per fibrosos [illegible] dat originem. 3. *Collo* [illegible] *pollerem* [illegible]

[illegible] fæces ex- [illegible]

[illegible] Sphincter vesicæ [illegible]

[illegible] *Ani* [illegible]

[illegible] *Marchettus*. Dicuntur *Ani levatores* quia [illegible] retrahere in suum locum. [illegible] cum magnis conatibus [illegible] modo difficulter retrah- [illegible] externus propendens manet.

[illegible] musculi sub vesica lati & tenues, orti a ligamé- [illegible]

[illegible] dextram quam [illegible]

[illegible]

 [illegible]

[illegible]

[illegible] Servetus, & nos Patavii in Anna quo-[illegible] excrementa per os, peracta conco-[illegible], infecto cornu.

CAP. XII.

DE MESENTERIO.

MESENTERIUM dicitur, quod sit in medio intesti-norum, non quod in medium intestinorum sit, [illegible]

[illegible]

terram recte dicuntur incolere, si quidem terra [illegible]

[illegible] abque viscere intestinum apud [illegible]

[illegible]

apud Authorem [illegible]

[illegible]

[illegible], ut intestinorum longitudinem [illegible] Mesenterii plus [illegible]

[illegible]

remissiunae & plurimae, [illegible]

[illegible]

[illegible] *Pecquetum* [illegible] *A*[illegible] [illegible] bus a [illegible] [illegible] tum in chyli distributione.

[illegible]

[illegible] excitantur.

[illegible] glandulas [illegible] etiam ad spatia implenda & calorem fovendum [illegible] unam in exortu glandulam [illegible] post *Fallopium* [illegible] [illegible] & [illegible]

 [illegible]

FIGURÆ EXPLICATIO

Q[illegible] V[illegible] per [illegible] [illegible], ut & Pancreas in [illegible] naturali ostenditur.

AA. *Hepatis pars convexa.*
B. *Hepatis pars concava.*
C. *Vesicula fellis.*
D. *Meatus biliarius.*
E. *Intestini duodeni portio.*
F. *Pancreas integrum in situ.*
GG. [illegible]
H. [illegible]
II. *Vena portæ ramus mesentericus.*
K. *Arteria mesenterica.*
L. [illegible] *in mesenterium diffunduntur.*
MMMM. [illegible] *mesenterio adhærent.*
N. *Jejuni intestini principium.*
OOOO. *Mesenterium.*
P. [illegible]
[illegible] *signant.*
Q. [illegible] *Glandulæ per mesenterium dispersæ.*

[illegible] intextæ sint.

Adeps. Circumfusa licet adeps [illegible] gui e vasis delapso, & [illegible]

Usus Glandularum. [illegible]

TABULA 31

G

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FIGURÆ EXPLICATIO

[illegible]

[illegible]

[illegible] tamen depurari nequeat.

[illegible] videtur inclinatio.

[illegible] partium sanguinearum.

[illegible]

[illegible]

[illegible] nationem habeant. Illorum autem bronchocele non à mesenterii vitio, sed vel a prava aqua vel aliunde de[illegible] more cujusdam quae regionis impleatur.

Mesen-[illegible] Vas mesentericum est esse commune tot fibrorum vinculum, quo lumborum vertebris annectuntur.

[illegible] carum. [illegible] vasa tumori ducta [illegible]

[illegible] tum per hec RECEPTACULUM CHYLI à [illegible] mus, cujus hic brevem historiam tradenus.

Receptacula [illegible] ilis. [illegible] post pastum quarta hora dissectis, a mes[illegible], in quod per vasa lactea ex mesent. [illegible] axillarem venam idem chylus sursum fertur [illegible]

in homine. [illegible] venas lacteas, & in thorace ductus lacteos chylo [illegible]

[illegible] ad Libell. de [illegible] spectat. Diversitas est nonnulla in homi[illegible] in his quoque pro specierum & indivi[illegible]

Nomina varia. [illegible]

[illegible] *lumbares* [illegible] invenimus. Plerumque [illegible] speciem gerere credit *Th. Cornelius*, [illegible] contrahuntur & corrugantur, [illegible]. Eleganter *Eustachius* [illegible]. Harum loco subitan- [illegible] glandulae erant immersae. [illegible] Non prorsus medium lumbo- [illegible]

[illegible] & appendices septi expressionem.

[illegible] *membranula*, [illegible] *molle* & *glabra* [illegible]

[illegible] ut lien, hepar, liene, &c.

[illegible] amplior factus Thoracicus ramus, [illegible]

FIGURARUM EXPLICATIO.

FIGURA I.

R[illegible] co[illegible] novarum Gla[illegible] suo situ exhibetur, eique annexa.

a. *H[illegible]*
b. *[illegible] reclinatus.*
c. *Vesicula fellis.*
d. *Intestinum duodenum.*
e. *Pancr[illegible] pars sub duodeno, ad quam spar[illegible]guntur rami [illegible] [illegible]*
f. *[illegible] in [illegible] puncta.*
g. *[illegible]*
h. *[illegible]*
i. *[illegible] superficie sparsi*
k. *[illegible]*
l. *[illegible]*
m. *[illegible] vena.*

FIGURA II.

E[illegible] in capite [illegible]

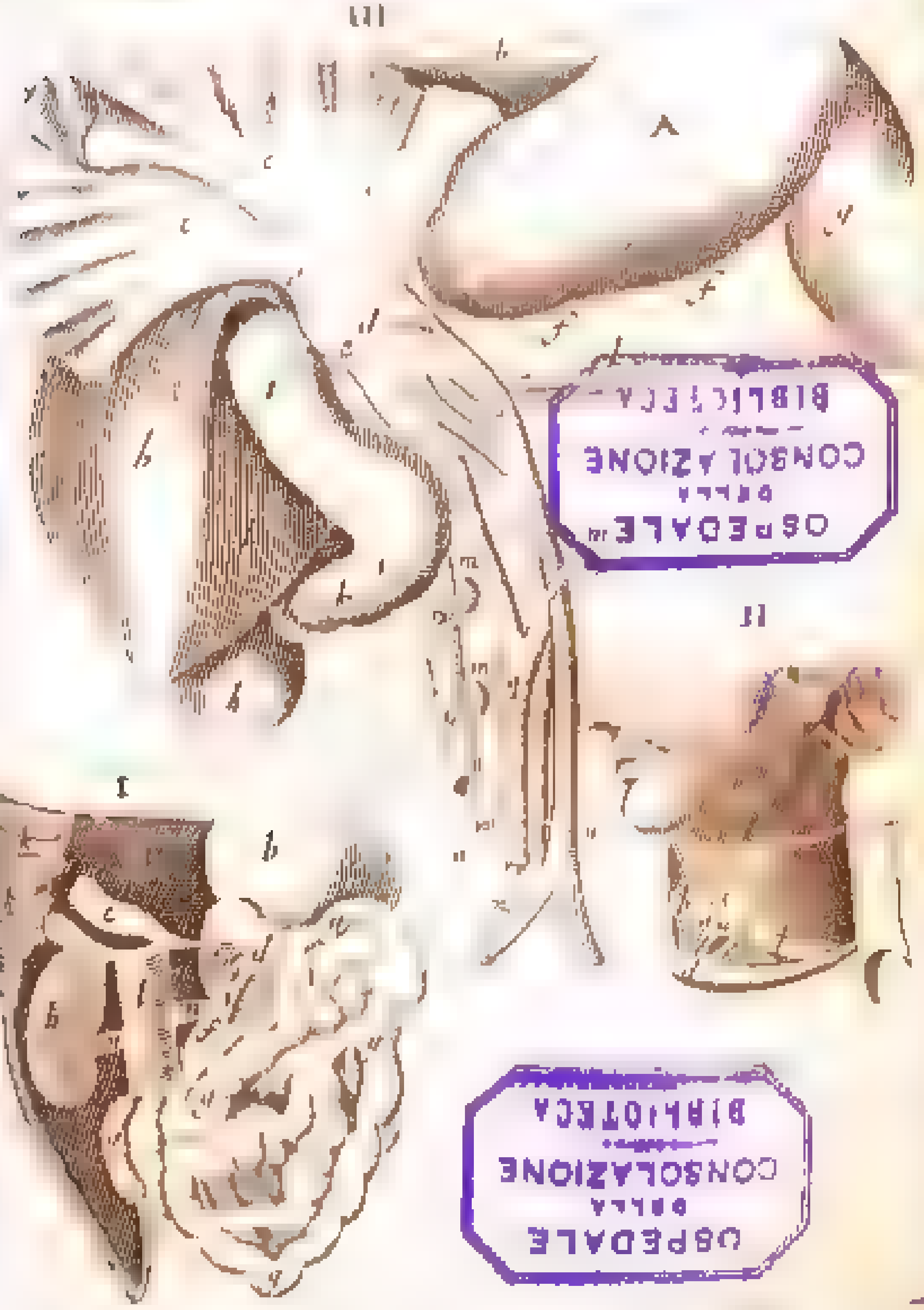
a. *[illegible] thoracicarum in axillarem sinistram inserto.*
b. *Axillaris vena integra.*
c. *Vena [illegible] externa.*
d. *Clavicula sinistra.*

FIGURA III.

Vel[illegible] *Ol. Rudbe[illegible]*

A. *[illegible]*
bbb. *Hepa[illegible]*
ccc. *[illegible] ac supra hepar reclinatum.*
dd. *[illegible]*
e[illegible] *[illegible] mesentery chylo turgida.*
ff. *Pancrea[illegible]*
g. *[illegible] pars [illegible]*
h. *[illegible]*
ii. *[illegible] abscissum.*
l. *[illegible]*
mm. *[illegible]*
n. *Arteria aorta.*
o. *[illegible]*
p. *[illegible] ex glandulis [illegible]*
q. *[illegible] chylosa sive saccus lacteus.*
r. *[illegible]*
s. *[illegible]*
t. *[illegible]*
u. *[illegible] ascendens.*
uu. *Pars [illegible] incumbens.*
xx. *[illegible] & aorta posita.*

TABULA XVII.



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[illegible] lenti chyli copiam effudit.

Numerus. [illegible] ramum, sinistrum a glandula [illegible] cum dextro tamen ra-[illegible]

In homine. [illegible] duo majore [illegible] ramus tamen est [illegible] homine plures in [illegible] comparebant quam in aliis hactenus [illegible] etiam quamplures aortam ac [illegible]

Magnitudo. *Magnitudo.* In brutis a [illegible] m vertebram [illegible] spatium inter [illegible] veniendum. *Cavitas interior* [illegible] gitos duos, vel unum [illegible] [illegible] mores transfundat, vel [illegible] nem postulat, vel [illegible]

In hominibus, [illegible] versorum [illegible] t, necessitatem. Unde va[illegible]

Figura. [illegible]

figura

[illegible] oblongam efficiunt. [illegible]

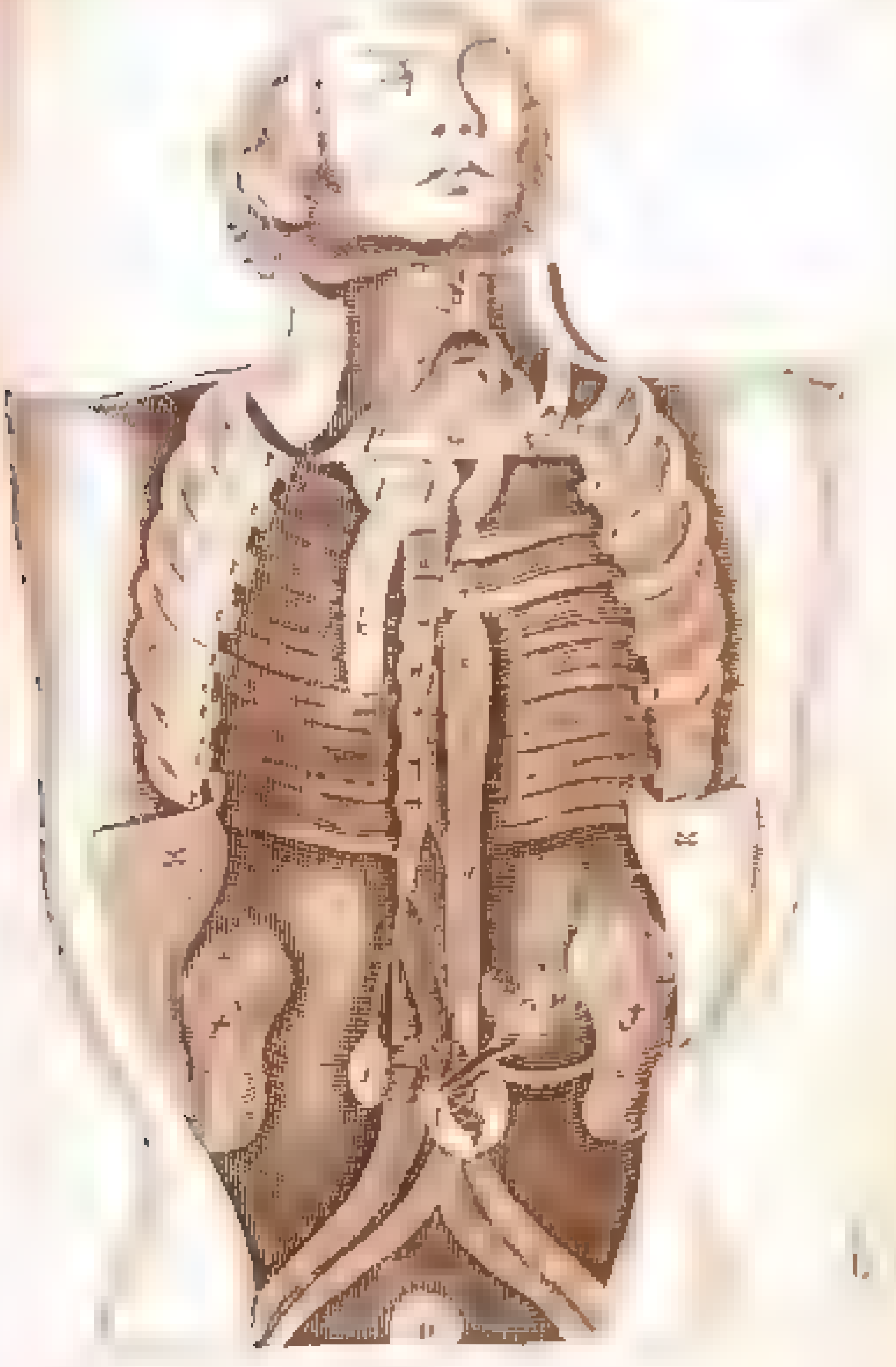
[illegible] diligenter. Penetrare ipsam [illegible]

[illegible]

FIGURÆ EXPLICATIO.

Glandulas novas lumbares separatim [illegible] lacteas ad axillarem, exemptis visceribus, monstrat.

a. *Glandula superior lactea nova.*
b b. *Glandulæ duæ inferiores, separatæ, ramisque la[illegible] venam compacta.*
c c c. *Rami lactei ex glandulis adscendentes.*
d. *Solitarius ramus thoracicus.*
e. *Emulgens Arteria [illegible] ad sinistrum reflexa, ad quam rami lactei ex glandulis progrediuntur.*
f f. *Renes.*
g g. *Arteriæ truncus descendens infra cor abscissus.*
h. *Spina dorsi.*
i. *Lactea thoracica ad sinistram subclaviam sub arteria subclavia repens.*
k. *Oesophagus dextrum versus nonnihil reflexus.*
l. *Glandula sub qua thoracicam lacteam absconditus [illegible] guntque.*
m. *Arteria subclavia abscissa.*
n. *Valvula lactea thoracica & interna [illegible] inserto.*
o. *Valvula jugularis interna.*
p. *Axillaris vena expansa & per longum dissecta facie [illegible] terior.*
q. *Jugularis vena interna.*
r. *Jugularis vena externa.*
s. *Axillaris vena ad brachium progressa.*
t. *Costæ utriusque lateris.*
u. *Vesica in suo situ.*
x. *Diaphragma utrinque resectum.*



[illegible] R [illegible]

[illegible] compresso mesenterio & valorat [illegible] in [illegible] vel [illegible] notent tollit vicinum mesenterio [illegible]. Ad [illegible] aperitur, qualis in glandulis conspicitur.

2. [illegible]

[illegible]

[illegible] per *Peritonæi* duplicaturam, in qua notantur.

4. Ad partem tantum chyli hæc admittunt [illegible] *Deusingius* [illegible] *Riolanus* [illegible] *requirunt.*

5. [illegible] *Lud.* [illegible]

[illegible] Aquosi humoris seu lymphatico proprie [illegible] [illegible] loco.

[illegible] cum receptaculo conjungit [illegible] non potest lacteum thoracicum [illegible].

CAP. XIII.

DE PANCREATE.

P[illegible]

[illegible] autem quandam & figuram lineis per se [illegible]

[illegible] corpore tota quasi [illegible] dicitur, tum Lactes ob candorem & mollitiem.

[illegible] & vena portæ, usque ad regiones [illegible], cui per membranas alligatur. [illegible] proprium alquando [illegible] vidit *Marchettus*.

[illegible] dio album est ejus [illegible].

[illegible] ram ut Arteriæ cœliacæ, *nervos* sexti paris qui ad Ven- [illegible]

[illegible]

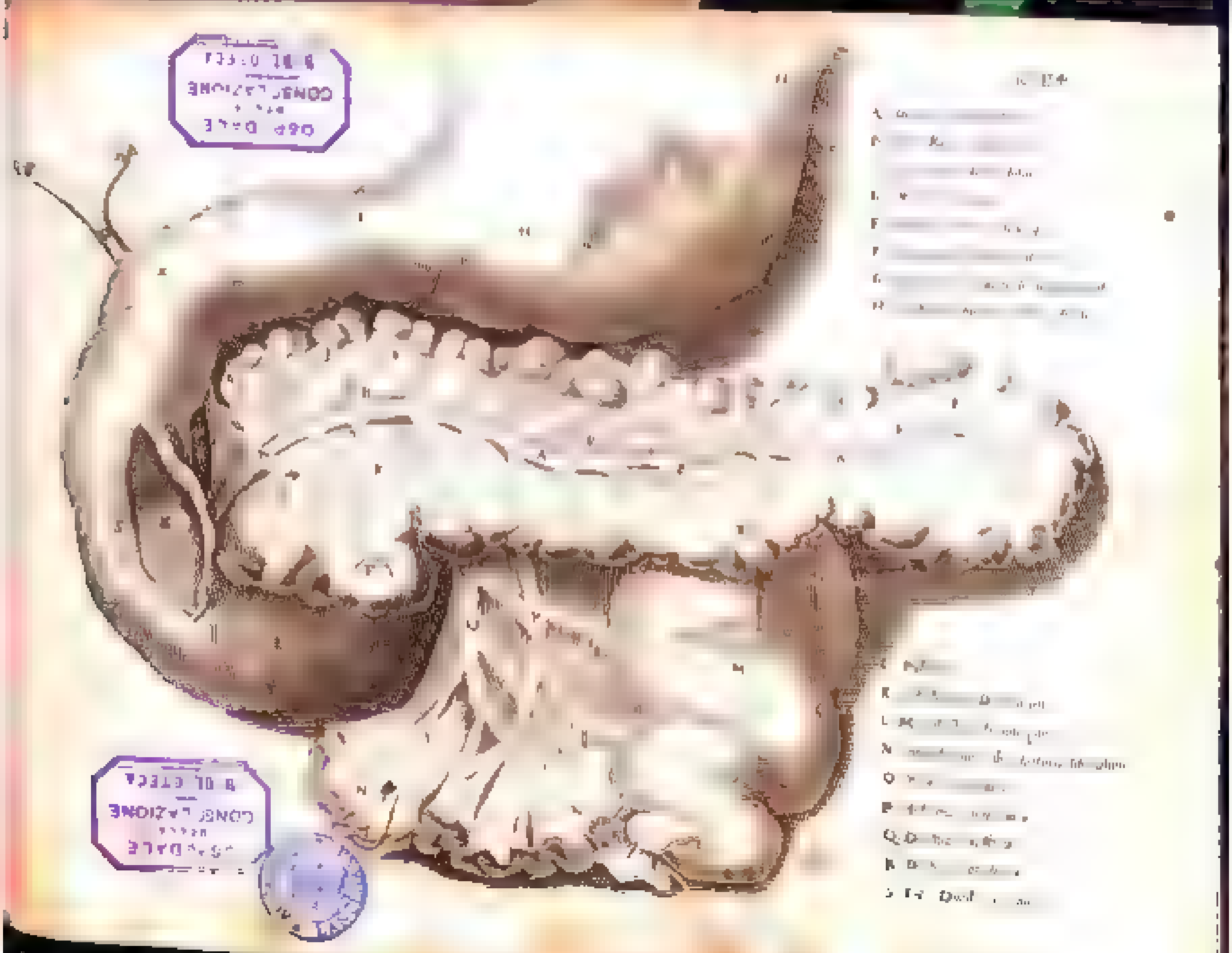
[illegible] membranorum, non [illegible]

[illegible] meatuum quendam [illegible] pancreas & glandulas proximas definatarum [illegible]

[illegible]

etiam ab eorum [illegible] duplex sit observatus parallela linea [illegible] a *Maur. Hofmanno* [illegible] in loco [illegible], & infra album largior. Cujus [illegible] meatus [illegible], cum quo [illegible] jungitur, [illegible], quod cum Auctore de [illegible] copulatur. Idem *Hofmannus* [illegible] duplicem, quorum alter [illegible], alter Epaticum bilis canalem committitur. [illegible] in Homine, in ipsum meatum bilia[illegible] *Highmore*, neque inter tunicas [illegible] nulla adstat [illegible] [illegible] ut [illegible] rectum versus intum[illegible], [illegible] vero [illegible], si credimus *Jac. Bar*[illegible] [illegible] difficile est, ante enim quam vel [illegible] vel ligetur, exspirat animal. *Highmorus* [illegible] Est vero ea obliqua, & [illegible] Neque eam concedit *Swalvius*, [illegible] totum pervadit, diffenditque [illegible] Inde totum Pancreatis corpus [illegible] angustioribus, [illegible] tamulos, donec [illegible] & recto ducta [illegible] [illegible] *Folius* [illegible] ordinario [illegible] deficit versus [illegible] capacitate, humor conspicuus est nullus [illegible] pleno [illegible] *Johannes van Horn* [illegible] vidit. Unde novi ostenti [illegible]

Usus [illegible], valde adhuc dubium. [illegible], quas in cor[illegible] non sit verosimile, propter va[illegible] [illegible]. Chylum tamen [illegible] ut ibi praeparetur, qui idcirco in vivis [illegible] defendit *Bacius*, non quidem ad nutriendu[m] pancreas, cum is humor ad ea sit ineptus, & arteriae coeliacae [illegible] praestent, verum ad commune bonum. Caeterum qua



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[illegible] Nam licet recti [illegible] & [illegible] ad [illegible] [illegible]. In venas [illegible] quia [illegible] [illegible] non [illegible] & [illegible] [illegible] *Horonus* ex Anatome [illegible] [illegible] [illegible] *Barkius* [illegible] Et [illegible] non [illegible] [illegible] in vivo [illegible] non [illegible] [illegible] paratam, sua advehendo, traducatur. At [illegible] esse [illegible] [illegible] pancreatico expertus est *Graefius*. Qui attractū [illegible] liem conferunt, magis fal [illegible] [illegible] ductus ad lienem. 2. Impedimentum [illegible] 3. [illegible] habet cum [illegible]

[illegible] sententia *Dom. Marchettis*, [illegible] ut Ductum [illegible] principium Venarum Lactearum, quod probat, [illegible] [illegible] alios *canales* inde oriri in cadaveribus [illegible] qui quidem versus Hepar porrecti, extra [illegible] plexum faciunt, postmodum disjuncti supra [illegible] [illegible] Coeliacæ tantum dextram ad Hepar [illegible] Sed [illegible] in Lacteo Thoracico; *Canales* [illegible] [illegible] ramis faciunt, [illegible] potest, quia nec colorem album addit, nec [illegible]

Secundo [illegible] destinatur, videndum cui humori [illegible] Vel [illegible] ille est, vel [illegible] seu [illegible] [illegible] est [illegible] creatur, qui ac[illegible] [illegible] vel ventriculo ad fermentationem hinc deducatur, vel chylo in intestinis?

1. Si enim fermentativum ventriculo adferre, ut [illegible] [illegible] *Jo. Dan. Horst.* [illegible] [illegible] [illegible] & [illegible] [illegible] ventriculo [illegible]. 4. nunquam talis in hoc ductu visus liquor.

Nec pro principio Lactearum.

Nec ad fermentum ventriculo deducendum.

2. In urest[illegible] *formatio*[illegible]

[illegible]

[illegible]

arant, sed ad receptaculum eunt.

[illegible] axillaribus & corde habeat mutationem.

[illegible] ctione advocat *Pancr. Brunus*.

[illegible]

[illegible] itur. Idcirco neque

Melancholica [illegible] *Helmont.* [illegible]

FIGURARUM EXPLICATIO.

In hac Tabula cum Pancreatis corp[illegible] novo Wirtsungiano ductu, [illegible] ad lienem vasa exprimuntur.

FIGURA I.

AAA. *Pancreas dissectum.*
BB. *Novus in Pancreate repertus ductus.*
cccc. *Ramuli ejusdem ductus.*
d. *Orificium ejusdem.*
e. *Orificium meatus bilarii.*
ff. *Meatus bilarius.*
g [illegible]. *Pars intestini duodeni.*
h h h. *Ramus splenicus.*
II. *Arteria splenica.*
K. *Arteriae coeliacae portio.*
LLL. *Anastomoses venae & arteriae [illegible].*
M. *Vena splen[illegible] ramus haemorrh[illegible].*
NN. *Corpus lienis.*
OO. *Vasorum in lienem ingressus.*

FIGURA II.

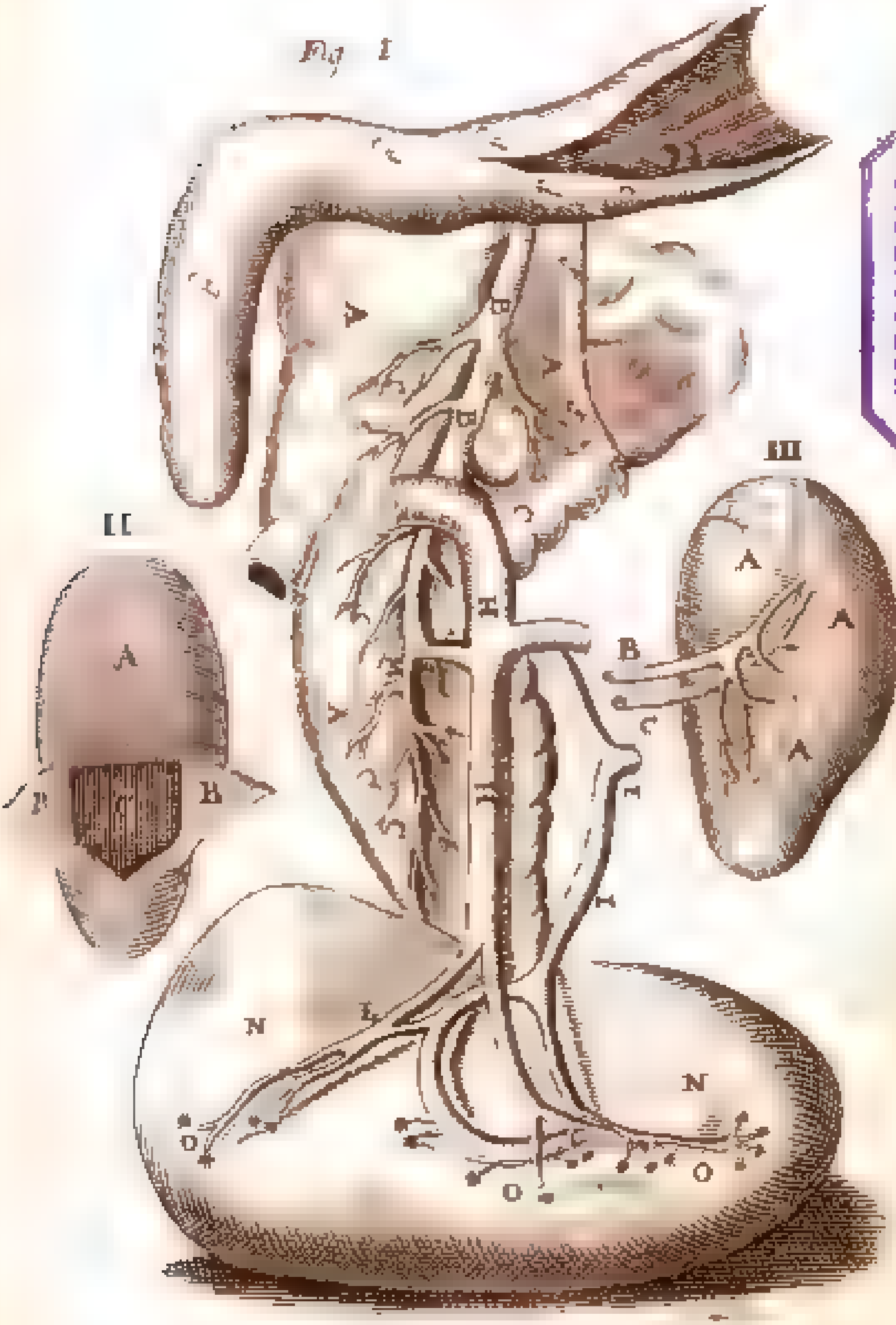
A. *Lienis pars convexa.*
BB. *Membrana lienis separata.*
C. *Parenchyma lienis nigricans.*

FIGURA III.

AAA. *Lienis pars concava vasa excipiens.*
B. *Vena splenica.*
C. *Arteria splenica.*

[illegible] Lib. de Affect. Hypochond. [illegible] *Mauroco* [illegible] *chondriacum* vocaverit, [illegible] melancholia. [illegible] ex ipso Pancreate, [illegible] aliquid per[illegible] [illegible] incunabula [illegible] [illegible].

[illegible] 6. [illegible] *Versungo* [illegible] [illegible] vesicula [illegible]



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FIGURARUM EXPLICATIO.

FIGURA I.

[illegible] necessaria.

A. [illegible]
B. [illegible] parte superiore.
C. Extremitas annulis ferreis armatus.
D. [illegible] longus & tenuis.
E. Charta quâ calamus obvolvitur.
F. Calami pars amplior.
G. Calami pars tenuior.
H. Lagenulæ orificium.
I. Epistomium ligneum.
K. Filum Epistomio annexum.

FIGURA II.

Exhibet Lagenulam cum omnibus requisitis ut decet ornatam.

FIGURA III.

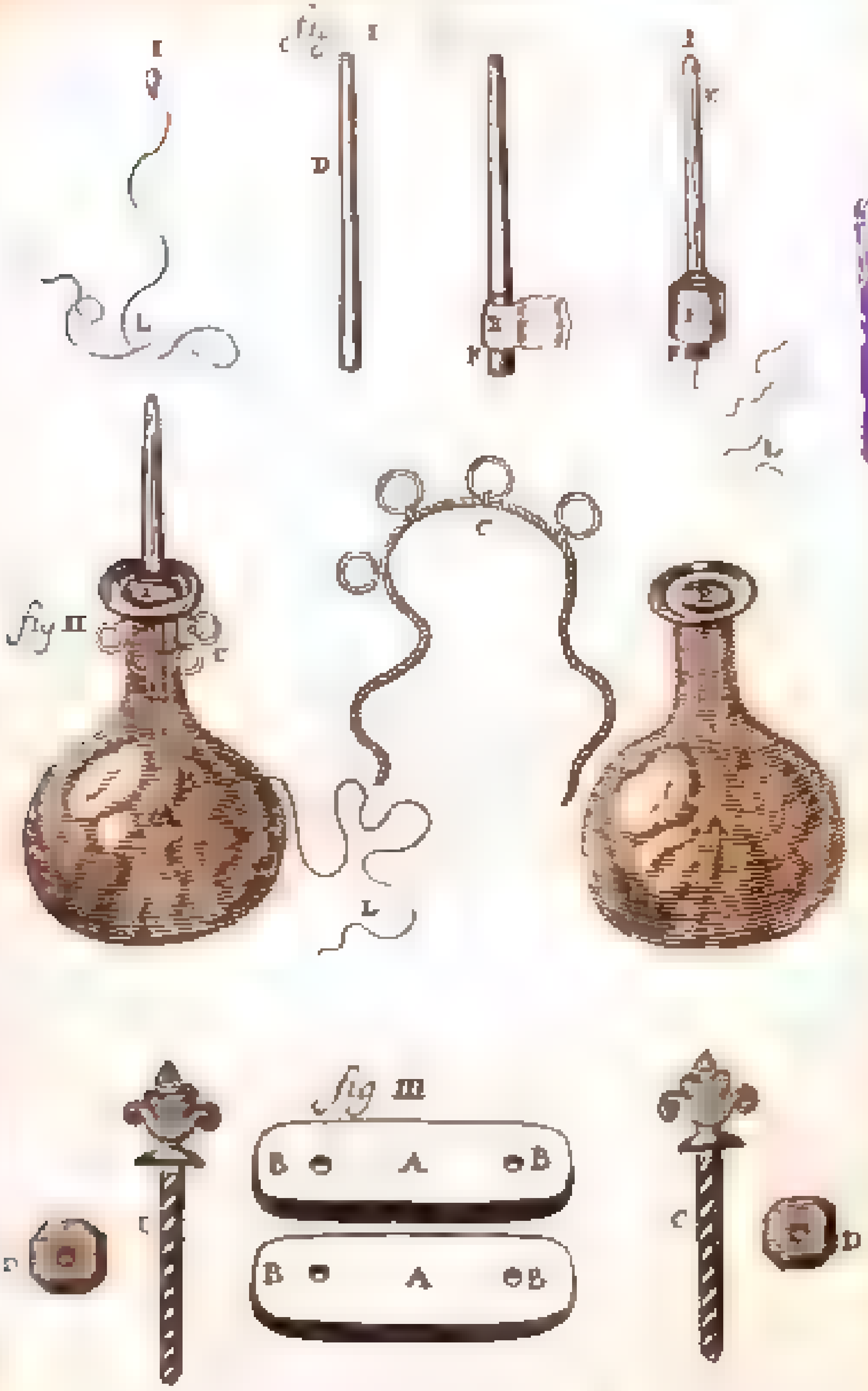
[illegible] partes [illegible] Dictas [illegible] possit.

A A. Tabulæ duæ ex ebore confectæ.
B B B B. Quatuor foramina in tabularum extremitatibus facta.
C C. Cylindri duo.
D D. Corda duæ circum cylindros volvenda.

[illegible] pars [illegible] duodenum, ut quem usum præstat hæc [illegible] posse & [illegible] præstare. Ne dogmata [illegible] ductus oblitus. A [illegible] in quibusdam [illegible]. [illegible] in diversum à me [illegible] esse vesicæ bilariæ, [illegible] vel tunicæ, sed situs & usus 2. Quam [illegible] pancreatica lapiat, [illegible] vehere, [illegible] [illegible] cum [illegible] communicare, [illegible] contra [illegible] ex cholidocho [illegible] propter valvulam vel ob quam [illegible] possunt [illegible]

[illegible]

TABULA XX.



CONSO.
BIBLIOTECA

FIGURARUM EXPLICATIO

FIGURA I.

[illegible] [illegible] [illegible] [illegible] & [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

A. *Phiala.*
B. *A*[illegible]
M. *T*[illegible]
N. *Intestinum duodenum.*
O. *Pancreas.*
P. *Prelum.*
Q. *Laryngotomus*

FIGURA II.

Re[illegible] [illegible] Canem, cap[illegible] post applicationem instrumentorum consutum est.

A A. *Phiala dua ad Succum Pancreaticum & salivam colligendum.*

N. *Pars* [illegible] *qua vitrum tegitur, ne sanguis per ejus foramen intrans Succum Pancreaticum inquinet*

[illegible] [illegible] 5. In bilosa [illegible], propter totius [illegible] [illegible] [illegible], in [illegible] [illegible] tantum 6. Ne [illegible] [illegible] [illegible] [illegible], sed intermedio tempore [illegible] [illegible] [illegible] [illegible] & vacuum.

Excrementa arteriosi sanguinis. 7. *Excrementa arteriosi* sanguinis a corde & liene, imprimis [illegible] & [illegible], per [illegible] arteriæ Cœliacæ ramos in se recipere, quæ non semper in sectionibus videntur, quia cito elabuntur per viam patentem, præsertim in vehementi commotione. Colligi semper, *Graafij* experimenta testantur.

Utilitas in vomitu. Utilis usus *Riolano* est, per hanc viam in vomitu expurgari humores varios & illuvies primæ regionis, atque ita [illegible] [illegible] malignarum & chronicorum morborum [illegible] [illegible] [illegible] in Pancreate, externi. Ego in [illegible] [illegible] [illegible] aliquid addam. Non solum vomitu [illegible] per alvum præter beneficio medicamento[illegible] [illegible] [illegible] [illegible] [illegible] a bile intemperiem, mesenterium, venæ arterias & cor ipsum adurente. Hinc [illegible] [illegible] [illegible] [illegible] [illegible] biliosæ, & in dysenteria [illegible] largo bilis diluvio hinc ad intestina continuo manante, qu[illegible] [illegible] [illegible] [illegible] [illegible] quo longius Pancreas a medi[illegible] [illegible] [illegible] [illegible] viscera profunde immersum [illegible]

Per alvum.

vel

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[illegible] breviore via per vomitum [illegible]

Usus Pancreatis. [illegible] *Usus Pancreatis.* 1. [illegible] vasa tran[illegible], ut [illegible] & [illegible] per[illegible] [illegible], quo [illegible] & [illegible] per[illegible]. Hinc [illegible] [illegible] & [illegible], com[illegible] [illegible] 4. Ex [illegible] part[illegible] angu[illegible] & [illegible] gl[illegible] 5. In [illegible] [illegible] *Humana* [illegible] *Renatus* [illegible] & pondus [illegible] [illegible] [illegible] *High-morus* [illegible] [illegible] cœno[illegible] continet [illegible] [illegible] 7. [illegible], [illegible] 8. [illegible] non [illegible], sed [illegible] [illegible] corpori [illegible] & necessarius [illegible] glandu-las omnes.

Cap. XIV.

DE EPATE.

HActenus [illegible] [illegible] [illegible] sermonem quæ [illegible] mo. Atque in his [illegible] Epar.

Epar est pars organica, in [illegible] ventre [illegible] sub dia-phragmate dextri lateris sita, [illegible] & [illegible] ex Galeno.

Epar, Græcis [illegible], Latinis jecur appellatur, [illegible] *venarum principium* dicitur, [illegible] tanquam in terra aliqua radicibus affusa. Venæ lacteæ à pancreate [illegible] lymphaticarum & [illegible] arbore [illegible] Vena [illegible] revera est arteria, Arteria venosa autem vena est & he-pati

Epar cur venarū principium?

FIGURARUM EXPLICATIO.

FIGURA I.

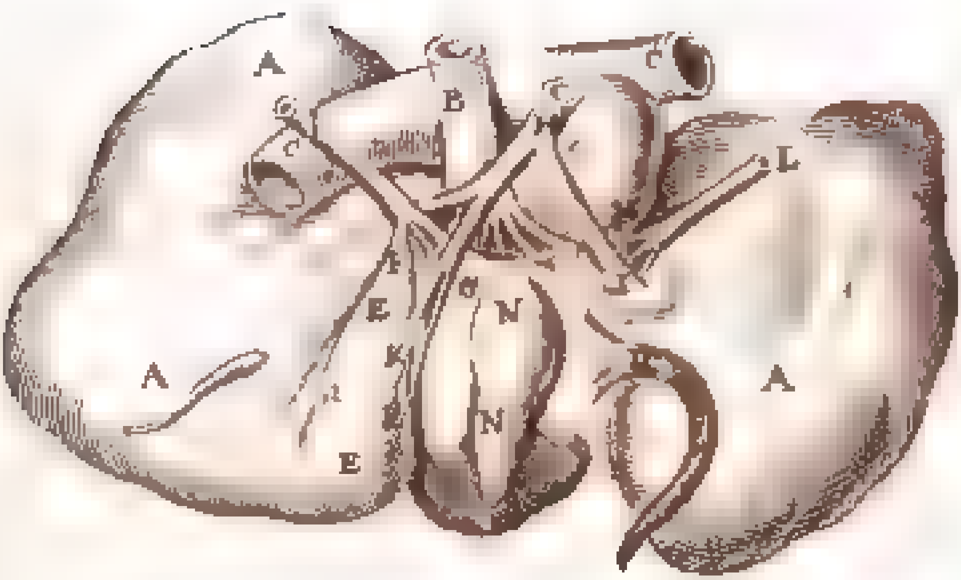
Hepar [illegible] partem simam exprimit.

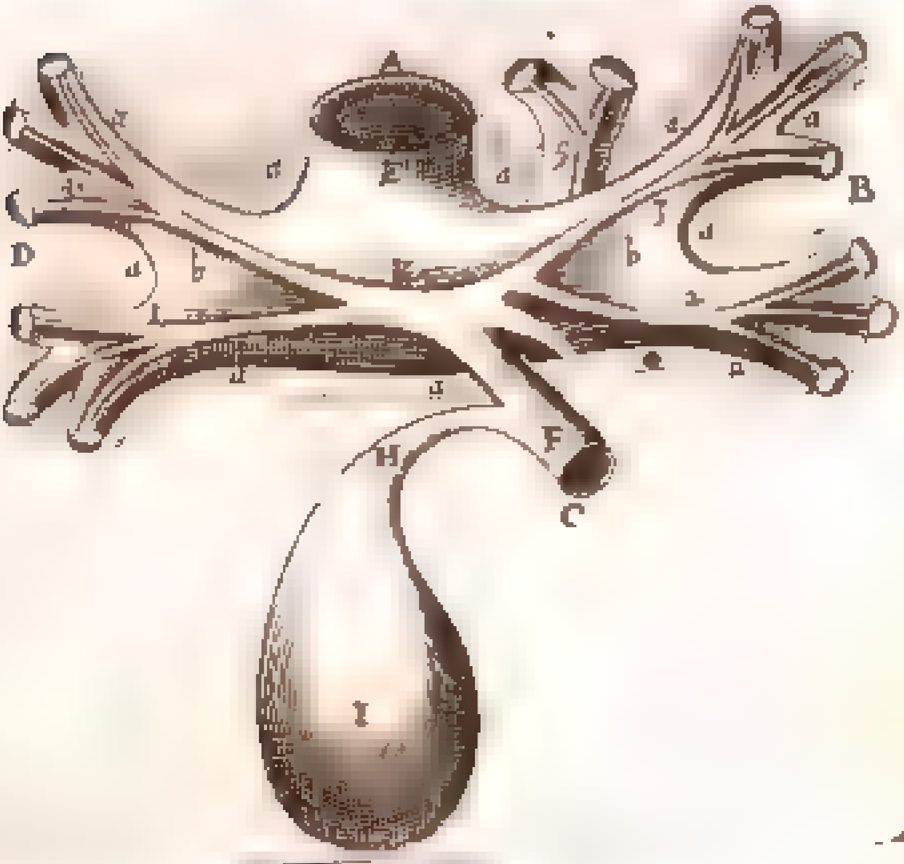
A A A. *Hepar in sima parte [illegible] tunica vest[illegible].*
B. *Vena porta [illegible] sede [illegible].*
C C. *[illegible] hepatis partem.*
D. *Vena umbilicalis ex hepate egressa.*
E E. *[illegible]*
F. *Ductus bilarius, Cysticus dictus.*
G. *[illegible] ductus [illegible].*
H. *Arteria quæ [illegible] ad [illegible] hepatis pervenit.*
I. *[illegible] par [illegible].*
K. *[illegible] ramus ad [illegible] felleam [illegible].*
L. *Nervus sexti paris ad hepar delatus.*
M. *[illegible] in omentum exporrectus, per quem hep[illegible] aqua plenam interdum evacuatam.*
NN. *Eminentia hepatis, Porta olim dicta.*
O. *[illegible]*
P. *Cava [illegible] quæ tam [illegible] hepatis [illegible], cor[illegible].*

FIGURA II.

Capsulam Glissonianam exhibet.

A. *Hepatis gibbum.*
B. *Pars illius dextra.*
C. *Cavum Hepatis.*
D. *Pars sinistra.*
E. *[illegible] porta sursum reflexa, ut cætera vasa [illegible] [illegible].*
[illegible] *Ejusdem quinque rami majores.*
F. *Ductus communis.*
G. *[illegible] prima [illegible].*
H. *Meatus cysticus.*
I. *Vesicula fellis.*
a a a a. *Capsula communis aperta.*
b b b b b. *Pori bilarii subdivisiones.*


A
B
C
E
K
N
L
A


B
D
K
F
H
C
I

[illegible] quod [illegible].

[illegible] spectatur in Matthia Ortelio.

[illegible] ventre, sub septo transverso) quod [illegible] & quod [illegible] *homine* [illegible] *Gemina* [illegible] *Riolanus* [illegible] lateri [illegible] etiam pars [illegible] *con* [illegible]

Figura. [illegible] sinistram alter, pro [illegible] ad dextram amplæ rotun- [illegible]

Divisio. [illegible] *partem dextram* [illegible] & mol [illegible] hepatis [illegible] hactenus desideratam. Sed

poste

[illegible] *Fala*[illegible] [illegible] *Sic se gerant* [illegible] *Gaffenius* [illegible] parte [illegible] commode [illegible] ex [illegible] pro [illegible] portione protenditur, [illegible] per quæ [illegible] dealbatur, [illegible] inter hepar & spinam [illegible]. Ve[illegible] brutis [illegible] bovem excipias [illegible] dig[illegible] & [illegible] Male ergo *Galenus* & *Alempius* in [illegible] humanum epar volunt [illegible] & [illegible] [illegible] *Galenus* [illegible] ex [illegible] *Piemp* [illegible]

Hepar in homine non dividitur in lobos.

Ho[illegible] [illegible]

Magnitudo & crassities epatis est in homine [illegible] & [illegible] & cerebrum non tantum [illegible] [illegible] [illegible] [illegible] [illegible] Majus [illegible] corporibus, & in [illegible] & gulosis [illegible] calor cordis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] & [illegible] [illegible] [illegible] [illegible].

Magnitudo.

[illegible] *Rhasis* & *Aben Sina* [illegible] *convexa* [illegible] [illegible] [illegible] *Latitudo* [illegible] [illegible] *Latitudo* [illegible] & *convexitas* [illegible]

Membrana [illegible] [illegible] *Riolanus* [illegible] *Platero* [illegible] [illegible] [illegible]

Membrana

FIGURARUM EXPLICATIO.

FIGURA I.

Exhibet jecoris partem convexam.

AA. *Jecoris pars convexa.*
B. *Membrana jecoris separata.*
CC. *Ligamentum jecoris suspensorium dictum.*
DD. *Vena cava e jecoris superna parte egressus.*

FIGURA II.

Jecoris partem concavam proponit.

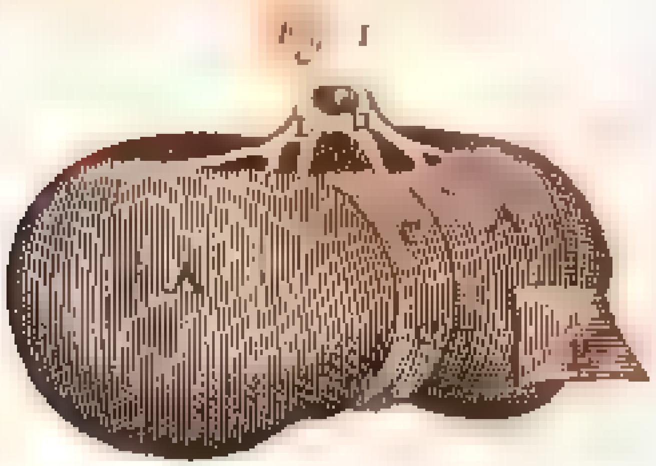
AA. *Jecoris pars concava deorsum conversa.*
B. *Lobus jecoris cui se omentum jungit.*
C. *Fissura jecoris, e qua vena umbilicalis D. dependet.*
E. *Vesicula fellis.*
F. *Canalis cysticus.*
GG. *Porus biliarius in duodenum H. desinens.*
I. *Truncus venæ portæ descendens à jecore.*
K. *Arteria Cœliaca dextra.*
L. *Nervus ad jecur delatus.*

FIGURA III.

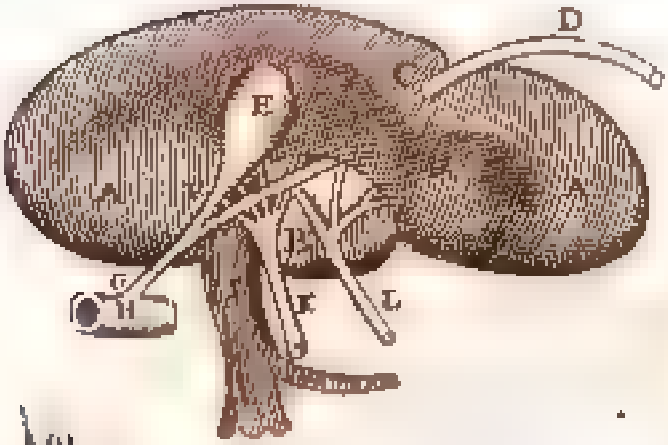
Vesicam Fellis ostendit.

A. *Vesiculæ biliariæ fundus.*
B. *Sinus ad cervicis vesiculæ exortum.*
C. *Cervix vesiculæ.*
DD. *Meatus capillares biliarii inter venæ portæ F. & cavæ G. radices per hepatis substantiam dispersi.*
E. *[illegible].*
H. *Porus biliarius, latior quam cervix vesiculæ.*
I. *Meatus communis [illegible] pori biliarii & cervicis vesicæ.*
K. *Orificium pori communis biliarii in duodeno.*
LM. *Duodenum [illegible] apertum.*
N. *[illegible].*
O. *[illegible] hepatis & vesiculæ [illegible] magnus [illegible].*

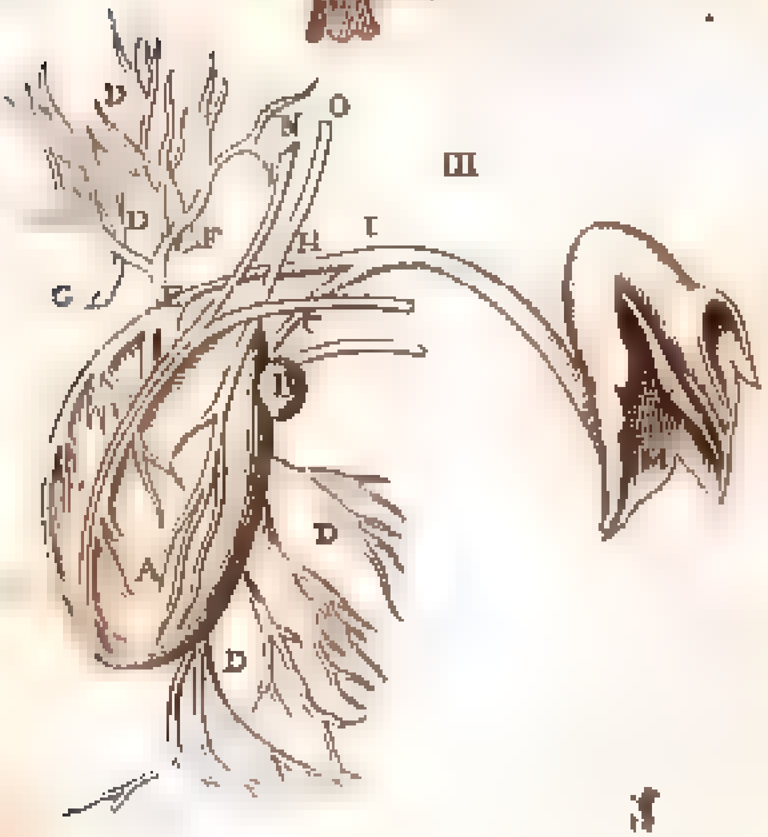
I



II



III



OSPEDALE DELLA CONSOLAZIONE BIBLIOTECA

[illegible] culos in aliorum animalium membr[illegible] [illegible] invenit.

[illegible]

alterum à peritoneo.

[illegible]

Substantiam habet [illegible] et possit, & separari à vasis [illegible] sive coctas [illegible] da, vasis circumfusam [illegible]

[illegible]

Color

Color epatis satis rubicun[illegible] in vivo om[illegible] sanguine [illegible] *Color.*
stituatur, aut decoquatur [illegible] *Glissonius* [illegible]
subcandidum esse, sicut in Embryon[illegible] [illegible]
[illegible] rubicun[illegible]
[illegible] t. [illegible]
monstravi. In Lampetra viride est. [illegible] pe-
coris disputat *Bronzerius*, eique [illegible] *Joan. Colle.*
[illegible]
[illegible] hepar in [illegible]
palidum est valde, uti etiam splen & renes.

Vasa [illegible] *vena porta & cava* [illegible]
[illegible] appa[illegible]
tur, ex observatione *J. Walai*, [illegible]
& exilibus, magis albentibus, à coeliaca [illegible]
dispersis. De hac arteria monet *Gl[illegible]*, [illegible]
hepar ingreditur, in omnes Capsulæ [illegible]
tis partes distribui, ubicunque [illegible]
[illegible]
exiguam in porum bi[illegible]. In [illegible] ductus
[illegible] demonstravit *Joh. van Horne* arcellan-
[illegible] nullam arteriæ hepaticæ partem in
p[illegible] vasa solum
absumi, alias sextuplo majo[illegible]
[illegible]
[illegible]
nat [illegible] h[illegible]
[illegible]
[illegible]
he[illegible]
tradit refrigerari hepar ab arteriis, non carent [illegible]
enim calent illæ & motu suo sanguinem p[illegible]
[illegible] H[illegible]
apparent distinctæ, abstracta carne seu [illegible]
[illegible]
[illegible]
[illegible] euntes, & bilem ad folliculum, &c. deferentes.
C[illegible] autem cum radicibus [illegible] sanguis à
[illegible]tur. Sed portæ radices plures, [illegible]
[illegible] disseminantur, paucæ per minimam [illegible]
[illegible] plures per [illegible]
pauciores per cavam seu simam partem.

[illegible] sed surculos vocat *Highmorus*, monens nul-
[illegible] ut in [illegible]
vaviam appositam esse, ne sanguis infusus in [illegible]
tando illud suffocet.

Rami capillares. [illegible] demonstrat *Glissonius*, ramos *capillares* [illegible] quaslibet parenchymatis partes [illegible] gutturante [illegible] [illegible] unus solum adest,) vel omnes cruunt (ubi plu[illegible] [illegible] parenchymati pro æqua proportione respondet.

Fell. [illegible] proportiones [illegible] actum spectari, continuans [illegible] amplitudinem excedunt [illegible] ita continue fit, donec ad ultima capillaria sit perventum, quia, ex naturæ lege, bilis [illegible] in hepate [illegible] secundi defluit.

[illegible] hæc in Hepate examinando *dissequi* [illegible] operæ pretium est, per compendium [illegible] Hepatis diffe[illegible] annotasse.

Quomodo vasa in cavo hepatis distinguenda. 1. [illegible] rubicundiores paulo, & colore nabilo [illegible] magis, quam sunt venæ cavæ. Habent tunicam [illegible] a Capsula. Inde crassiores sunt [illegible], atque ad *arteriæ naturam* accedunt, [illegible] major est [illegible]

2. Rami, ramuli, & [illegible] induuntur, sunt candidiora, [illegible] magis [illegible] & [illegible]

[illegible] & [illegible]

4. Si duo vasa in [illegible] tur cum ramulis, sese mutuo non [illegible]

5. [illegible] posticam hepatis partem [illegible] evaserit, ad venam cavam [illegible] hepatis, ejusque centrum perpe-[illegible] solutes.

[illegible] duplo plures ra-[illegible] habere videatur.

Venæ Lacteæ nullæ in hepate. [illegible] ad venam Portæ aut [illegible] ad cavam. [illegible] hactenus in hepate [illegible] earum tractum hic observavit.

Locum

[illegible] autem p[illegible] ideolic, quem [illegible] [illegible] deſignavi. Aſellianos pleriſque [illegible] terque eos *Highmorus* manif. ſic ad ſimam [illegible] re aſſerens. *Maurocordatus* in eque [illegible]

Sed decepti omnes ſunt. Nulla [illegible] ap-pareat, nec ex eo prog[illegible] poſt *Aſellium*, *VValæum*, *Highmorum* nonnulli in [illegible] ſunt. Erat tamen Non [illegible] humorum [illegible] A[illegible] coloris ſple[illegible] ſimil[illegible] [illegible] Quod nos in O[illegible] piſce anno [illegible] eſſe deprehendimus R[illegible] lacteũ in O[illegible] ſub eo-lè [illegible] verſus [illegible] *Joannes Horne* ſuſpi-catur. [illegible] *VVharttonus* non in hepat. [illegible] cavitat hepat[illegible] omnes oculi [illegible] nõ [illegible], meliora [illegible] favore. Certum eſt ramulos ex hepate procedi[illegible] [illegible] *Aſellius*, *VValæus*, *Highmorus* [illegible] chylum ad hepar vehere, quod [illegible] H[illegible] detegimus, liquore cum [illegible] ſeu ſeroſo pel[illegible] [illegible] ex hepate pellicitur, quæ nos [illegible]

Vaſa Lymphatica [illegible] *Ol. Rudbeck* [illegible] Aquoſos. Hæc vaſa limpida aqua per tunicæ ſubtilitatem pellucent quæ ligata, hepar verſu[illegible] lym-pham ad Receptaculum chyli vehunt, [illegible] lympha non [illegible] repletum cernitur. *Vaſa Lymphatica.*

Oriuntur ab ipſo hepate variis locis [illegible] annula-tim amplexãtia cum cava [illegible], variis ramulis [illegible] vel pauci[illegible], modo [illegible] glandulæ [illegible] ingreſſa venæ portæ ſubſt[illegible] Recepta[illegible] lum definunt. De quibus nos fuſius in Hiſt[illegible] *Lym-phat.* *Ol. Rudbeck* in [illegible] *Aquoſis*, & alij poſt nos [illegible] [illegible] *Ruyſchius* [illegible] ab externa [illegible] partis parte procedunt[illegible] [illegible] glandul[illegible] partem in [illegible] [illegible] poſt [illegible] & ad Receptaculum [illegible] non ſemper inviniceri vi-dimus, probatq[illegible] & nuper Amſtelodami [illegible]. Horum *Uſus* eſt, ut aquam hepatis ſuperfluam ad Receptaculum veh[illegible] ex hepate. Ligatura [illegible] docet. Verſus enim [illegible] [illegible] hepar reſpiciunt. Quo confirmant *valvulæ*, quarum ſedes deſignavit *Rudbeckius*, [illegible] aperuit *Ruyſchius*, receptaculum chyli reſpicientes, prohi-bentes [illegible] quid è receptaculo ad hepar perveniat. *Illorum ortus.* *Uſus.*

Origo lymphæ hujus dubia. Ab hepatis privata coctione *Lympha origo.*

[illegible] *Speciles. Lymph* egimus.

[illegible] enim instar densatum igni exposita.

[illegible] *Harveyus* & [illegible]

[illegible] de se mido [illegible]

[illegible] *Glissonius*, [illegible]

[illegible] anastomo [illegible] immediate conjungi, [illegible] ramos cavæ & portæ [illegible]

[illegible]

a leo arctè, ut citra alterius rupturam [illegible] ... alarium & vena u ca[illegible] ... interventu nusquam pervias [illegible] ... obverso lumine. *Rupurcus* [illegible] ...

contractum, [illegible]

[illegible]

[illegible] anastomoses manifestas, [illegible]

[illegible] portæ & cavæ san- [illegible] alit materia peccans, [illegible]

[illegible] quid sentiat, consulatur *Glissonius*. [illegible]

[illegible] Receptaculo.

[illegible]

Capsula [illegible]
hepatis. Porta [illegible]

[illegible] tunicæ circ- [illegible]

contextu

[illegible] vesicarum more.

[illegible] montibus & universo corpori.

[illegible]

FIGURÆ EXPLICATIO

Sima hepatis pars [illegible] cum V[illegible]s p[illegible] liberata, ex *Gliffsono*.

A. *Pars hepatis dorso vicina.*
B. *Latus illius dextrum.*
C. *Anterior e[illegible]*
D. *Latus sinistrum.*
E. *[illegible] cava, [illegible]*
E 1. E 2. E [illegible] *[illegible] hepar distribuit.*
F. *[illegible] Porta [illegible] spectum [illegible]*
F 1. F 2. F [illegible] *Quatuor rami Por[illegible] quadrantes dispersi: quintus autem [illegible] latera con[illegible] nequit.*
G. *Vesica fellea.*
H H. *Vena umbilicalis in ligamentum [illegible].*
I. *Ductus communis.*
K. *Canalis venosus, ligamenti jam munus obtinens.*
L. *Cava descendentis [illegible].*
a. *Membrana hepar investiens [illegible]*
b. *Pars diaphragmatis [illegible]*
c. *Porus bilarius.*
d. *Meatus cysticus.*
e. *Vasorum horum concursus.*
f. *Arteria hepatica.*
O O. *Nervi hepatici.*
P P P P. *Capsula communis, aperta.*
q q. *Lymphatica vasa.*
m m. *Portæ ramuli minores.*
n n n. *Cavæ ramusculi.*

[illegible] *de Nervis* dispiciemus.

[illegible]

Ita generatus, ut creditum fuit, cruor [illegible] hepar [illegible] corporis distribue[illegible] [illegible] hepaticæ, seu per [illegible] & vaso [illegible] [illegible] [illegible] cava versus hepar, [illegible]atur juxta cor.

[illegible] corporis [illegible] per eandem venam [illegible] [illegible] [illegible] per [illegible] [illegible] generatis [illegible] circulatio [illegible] mentes. Serum vero [illegible] tenuius sanguis ubi [illegible] partim ad [illegible] [illegible] serum excrementum [illegible] segregatio sanguinis à sero in renibus [illegible] partim per lymphatica absorbetur.

[illegible] non [illegible] vel non [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible]

actione [illegible] aliqualis commeatu, quia [illegible] [illegible]

Pro [illegible] pace [illegible] [illegible] [illegible] facultatis [illegible] [illegible] primario [illegible] [illegible] [illegible] [illegible] thoracicas [illegible] vena cubito [illegible] [illegible] Necessitatis [illegible] statum thoracicas pervenire [illegible] [illegible] vel [illegible] [illegible] [illegible] [illegible].

[illegible] Lysiphanes [illegible] [illegible] [illegible].

Dubium [illegible] A[illegible] [illegible]

[illegible]

4 [illegible]

5 [illegible]

6 [illegible]

7 [illegible]

[illegible] ad sanguinem coquat.

[illegible] Nam

[illegible]

[illegible] *Pecquetum* [illegible] ... chylo, [illegible] ... Hinc [illegible] ... *Jo. Cornely* [illegible] ... *Galenus* [illegible] ... *Charleton* [illegible] ... hepatis [illegible] ... *Everard*. [illegible]

2. [illegible] *Pecqueto* [illegible]

3. [illegible]borum elixatione.

4. [illegible] *Rudbeckius* [illegible] humorem [illegible] ad Receptaculum mittere.

5. [illegible] *Jo. Theod.* [illegible]

6. [illegible] *Goth. Moebius* [illegible]

7. [illegible] *Ger. Blasius* [illegible] tiæ, tum.

8. *An non separant ab hepate humores, sed conjungi* [illegible]

bantur,

[illegible] Humores, [illegible] *sanguinem* [illegible] & [illegible], ex [illegible] *Hornius* [illegible] *Lindanus & Dea*[illegible] & [illegible] ad [illegible] ; vel [illegible] *cum sanguine*, qua [illegible]. Hunc usum [illegible] sanguis sepa- [illegible] talem, non destillatione, [illegible] tione, nec colatura, quia [illegible]. Extingui non potest, quia in fellis folliculo [illegible] constant. 4. Nihil in ductum bilarium [illegible]. 5. [illegible] vesiculæ favet expulsioni.

[illegible]

[illegible] gius depurandus, sed ad intestinum.

Dubiis Sylvianis *Deusingius* respondet, quorū hæc sūma. 1. Bilis [illegible] à [illegible] credū [illegible] *Deusingius* [illegible] *Pecqueto &* [illegible] *Glissonio*. [illegible] hepar [illegible] per [illegible]. 5. Expedit [illegible]. Non [illegible]

[illegible] ex [illegible] per menses aliquot effluere.

9. [illegible] Sylvio, contin[illegible] [illegible] capillares [illegible] corpus.

10. [illegible] *Jo. van Horne* [illegible] At postea [illegible] per me[illegible] *Deusingius* [illegible] & [illegible]

11. A[illegible] hic sanguis [illegible] visceus hoc humectat, & emollit & laxa[illegible]

CAP. XV.

De bilis receptaculis, nempe FOLLICULO FELLIS, & CANALI BILARIO.

In [illegible] & cava parte epatis, pro duplici [illegible] & [illegible] *Vesica* [illegible] Hofmannum [illegible] p. 6. Item [illegible] crassiorem & [illegible] naturales contine[illegible] crassior ille sanguis.

Vesica bilaria, si[illegible] membrana. VESICA BILARIA, seu *folliculus fellis*, [illegible] [illegible] & [illegible] omni [illegible] [illegible] continent [illegible] quidam, ex exc[illegible]

[illegible] ad accedum [illegible]
[illegible].

[illegible] Quod [illegible] nonjam desierat in [illegible] aliud [illegible] organo.

[illegible] parva est, [illegible] & rerum [illegible]. Duo [illegible] major observatur. *Magnitudo.*

Dividitur in fundum & cervicem. *Divisio.*

Fundus [illegible] est [illegible] loco [illegible], quando [illegible] colore [illegible] & [illegible] tenta adaritur. *Fundus vesicæ.*

Cervix [illegible] fundum spectat, oblon[illegible] & an[illegible], *meatum Cysticum* [illegible] petens [illegible]. Ad cervicem observatur primo *pinus* quasi [illegible] ex spongiosa prominentia, quam pro valvula habet *Spigelius*, [illegible] membranulæ vel *valvula*, aliquando [illegible], aliquando ternæ, quæ bilis regressum impediunt. *Glissonius* [illegible] *annularem fibrosum* [illegible] meatum [illegible] vasa [illegible] aperitur [illegible] compressione [illegible] & [illegible] vas [illegible], ut & [illegible] Nec [illegible] hujus [illegible] [illegible] valvula [illegible] *Highmorus* & *Riolanus* [illegible] Aper[illegible] per nervum hepaticum [illegible] probat *Regius* & [illegible] nulla bilis [illegible] apertum [illegible] valvula, & per [illegible] vesica, cujus [illegible] *Blasius* & *Sladus*. *Communicatione* [illegible] *Cervix.*

[illegible]

[illegible]

Foram[illegible] [illegible]

[illegible] tant, [illegible]

[illegible] *meatu* [illegible]

[illegible] disseminatis qui postea in unam non[illegible]

[illegible] vocatum [illegible]

tam in vesiculam advehunt.

[illegible] Obs. Amstel. [illegible] *Rasio* [illegible] vocat [illegible]

Ductu[m] singularem [illegible] ubi ea hepati adhaeret. *Valvula* [illegible]

[illegible] *Fons* [illegible]

Haec [illegible] *Arant[ius]* [illegible] *Valvulam* [illegible]

Fibrae. *Venae duas* [illegible] *fibras* [illegible]

[illegible] *Arant[ius]* [illegible]

[illegible] anteriori facile & basi & [illegible] penetrant in ramos biliarios [illegible] hepatis [illegible] *Joannes* *Henric[us]* [illegible]

venae

[illegible] mentum vocat [illegible] *Fallopio* [illegible], vix comprehensum, [illegible] sensum perspicue.

[illegible] *Fabricius* [illegible] eum venaticus corpus peragens, [illegible] commune in alveum [illegible] a hepate [illegible] salvet splenitidem, sicut nobis apparuit, licet [illegible] posit.

Tumor [illegible] & peritonæum [illegible] *Tympanites vitæ.* [illegible] *Herrin* [illegible] nervus vesica [illegible]

De [illegible] *Tu-mor.* vario com[illegible] A[illegible] *Aristoteles* [illegible], habere [illegible] materiæ, & eadem, sanguis [illegible] *Consrugine* [illegible] ba iatu, ad toc[illegible] & si nautes [illegible] hepat [illegible], [illegible] *Halyabbate* & *Aben Sina* & [illegible] dam [illegible] in epate [illegible] habere, [illegible] *Nemesio* [illegible] stomacho [illegible] promo[illegible] per [illegible]

A[illegible] *Gassendus*, [illegible] *Lib. r. num.* ut sanguinem à coagulatio[illegible] [illegible] fossas [illegible] extra [illegible] venius, nec ullo experimento [illegible].

[illegible] *Helmontij* [illegible] & [illegible] cedere fel in [illegible] insuper [illegible] in hepar [illegible] hepate [illegible] sanguinis [illegible]

[illegible]

Aliter nouum [illegible] distinguen[illegible]

[illegible] & chyli a [illegible] nem Pinorum [illegible] dem reddit sive valvula, sive obliqua infertio.

[illegible]

3. Non difficilis est eorum sententia, [illegible] nas partes [illegible]

4. Plures fæcibus expellendis desti[illegible] eis calore illius intestini, [illegible]

[illegible]

Alter [illegible] CANALIS vel PORUS [illegible]

[illegible] quod vena non [illegible] separatim [illegible]

cur

[illegible] ... æqual-
[illegible] ... ductus.
[illegible] *Cystinum* [illegible] ex hepate ad
[illegible] ... com-
[illegible] ... *magnitudine* ... pen-
[illegible] ... *Hamus* ... nosi.
[illegible] ... pagit in-
[illegible] ... portæ ... vel ... aor
[illegible] ... venis, parten
[illegible] ... & ... quod
[illegible] ... ian-
[illegible] ... ment.

[illegible] ... *Cysticadusimi,* [illegible] ... *Hepati* [illegible] ...

An porus bilarius sit Ramus cysticus.

[illegible]

Non est chi loducus.

[illegible] ... *Galenum* ... huius bilarij descriptio vera *Fallopio* [illegible].
Chi ... vocatus ... quod ... trahere ... [illegible]

[illegible] Breus [illegible] corpus concr[illegible] [illegible]. Sed [illegible] [illegible]

[illegible] *Rorum* [illegible] [illegible] dilatatio, [illegible] [illegible] maculas & [illegible] substavas observavit.

Ductus communis naturalis. *Communis* [illegible] [illegible] propoint.

Vatenalam [illegible] meatus com[illegible] *H gonno-rus*, [illegible] *Merchetus* [illegible]

Obi quæ infrenum descriptio. [illegible] *Jo. Faber* [illegible] *Gessmer* [illegible] compleri [illegible] [illegible] naturis [illegible]

Præternaturalis. Non [illegible] [illegible] observatione *Argenterii* [illegible] observatione *Jo. Vesali* [illegible] [illegible]

Quæ [illegible]

[illegible] similis color, & inde fluida alvus reddi potest, [illegible] *Riolano*.

Cap. XVI.

DE LIENE.

Lien [illegible] Splen [illegible] hypochondrio sinistro situs est è regione epatis, tanquam [illegible] diaphragmate, inter costas & ventriculum, [illegible] vel lumborum sede quam in aliis [illegible] tamen [illegible] costis [illegible] & costis [illegible] in dextro sit latere, & epar in sinistro. *Lienis situs.*

Numerus [illegible] est, raro duo ut notavit *Aristoteles* [illegible] & *Pollux* [illegible] & Romæ [illegible] *Marchetti* & olim *Hippocrates* [illegible] non tamen [illegible] *Fallopius* [illegible] lienes [illegible] *Aristoteles* [illegible] *Laurentius*, & *Schenck* [illegible] & *Holterus* [illegible] *natura non abundat in superfluis, nec deficit in necessariis*. [illegible] *Numerus.*

[illegible] *An lien exemi possit ex corpore?*

[illegible] *Erasistratus* [illegible] *Plautus* [illegible] Chamæleon & alia multa. [illegible] *H* [illegible] *& multa splenem.*

[illegible]

FIGURARUM EXPLICATIO

FIGURA I.

Bovis Lien, ex Highmoro.

AA. *Substantia Lienis ejus tunicâ propriâ tecta.*

B. *Venæ Portæ portio.*

C. *Ejus ramus sinister, seu Ramus splenicus.*

D. *Ramus hic prope Lienem apertus, ut Valvula b ostendatur.*

EE. *Lienis tunica dissecta & inversa, ut vasorum & fibrarum progressus ac plexus melius ostendantur.*

FF. *Arteriæ splenicæ portio, quæ totam lienis substantiam percurrens, in illam*

gg. *surculos suos dispensat.*

GG. *Fibræ quædam nervosæ mire complicatæ, inter quas Arteriæ surculi excurrunt, & quibus parenchyma lienis affixum adnascitur.*

b. *Valvula in Ramo splenico, extrorsum versus portam spectans.*

ccc. *Foramina quæ in termino Rami splenici à Lienis substantia ducentia, conspicua sunt.*

ddd. *Nervi per latera arteriæ splenicæ percurrentes.*

eee. *Terminus Rami splenici ad portas ipsius Lienis, d[illegible] euntis.*

FIGURA II.

Vasa Lymphatica & sanguinea in Liene ligata ex Fr. Ruyschio.

A. *Lien Vituli.*

B. *Vasa sanguinea & lymphatica ligata.*

C. *Vasa splenica.*

D. *Arteria splenica.*

E. *Nervi splenici quorum numerus incertus.*

F. *Vasa lymphatica in extima Lienis parte orientia, dum entia*

F. *[illegible] in Vasis.*

G. *Ligatura.*

OSPEDALE
DELLA
CONSOLAZIONE
BIBLIOTECA

ſente Rege [illegible] *Frederico* III [illegible] *Philippus Hugnart*, [illegible] extra [illegible]

Cur homini hæc magna? *Magnitudo* [illegible]

[illegible] ſi magnitudo ſit vitioſa.

Figura. *Figura* eius plerumque [illegible]

[illegible] quibusque vidimus in [illegible]

[illegible] Colore.

[illegible]

[illegible] Connexio.

[illegible] pectoralem sive, secundum alios, sui generis.

[illegible] Tunica.

[illegible] Substantia.

[illegible]

[illegible] Fibrarum accuratè descriptio.

[illegible] interjectis non [illegible] foraminibus glandulis, quæ cancellos, [illegible]

[illegible]

Usus. [illegible] *Hartmannus* [illegible] ex [illegible] *Highmori* [illegible] [illegible] ex arteria [illegible] parit. 2. [illegible] idem parenchyma [illegible] ad venam [illegible] [illegible]. 3. *Glissonio* [illegible] [illegible] & aquo [illegible] nervos capillares [illegible] [illegible] glandulis [illegible] [illegible] [illegible] *Spigel.* [illegible] [illegible] & [illegible] nostri [illegible] [illegible] ne. 5. [illegible] nes. 6. Ex [illegible] & [illegible] *Th. Schenckius* [illegible]

Vasa habet Lien omnis generis.

Vena. A *vena porta* [illegible] [illegible] long [illegible] & [illegible] [illegible] *Highmoro* [illegible] [illegible] quatuor [illegible] *Vesalius* [illegible] [illegible] venae [illegible] & [illegible] [illegible] venam, in duas [illegible] ad [illegible] [illegible] & [illegible] [illegible] *Ruysch* [illegible] in splene [illegible]

Arteria. *Arterias* [illegible] [illegible] [illegible] [illegible] [illegible] & [illegible]

patet

[illegible]

plendo insignem.

[illegible] *Anastomoses* [illegible] — *Anastomosis*

[illegible] *Vasa Lymphatica* [illegible] — *Vasa Lymphatica.*

[illegible] — *Nervi.*

[illegible] — *Usus nervorum ad sensum & motum.*

[illegible]

[illegible] intestinorum [illegible] ventriculus [illegible] & ex [illegible] fixatione [illegible] mutationum eluctatur.

Cur musculi nervis carent? [illegible] & confirmat. [illegible] nervis [illegible] fibratam [illegible] *constringendo*, [illegible] conjungant, [illegible] putredine & [illegible] natura [illegible] fermentativam [illegible] modo *contrahant & constringant*, [illegible] *aperiant & dilatent*, ut [illegible] modo [illegible] deponatur, etiam et *fermento* in [illegible] [illegible] Propter [illegible] lenti, qui [illegible] virtute fermentativam promoveret. [illegible] humorem [illegible] & [illegible] acrimonia [illegible] Sed postero [illegible] spiritu[illegible] accepiantur [illegible] humores [illegible] pro[illegible] [illegible] perpetuo.

Actio lienis. *Lienis* ACTIO [illegible] triplex [illegible] Atrabilem hanc [illegible] & [illegible] ex epate [illegible] excrementum inde secernere, ut [illegible] Secretum [illegible] ventriculum & intesti[illegible] alimentum [illegible] ab arteriis [illegible] quia caro [illegible] & laxa [illegible] [illegible] Ductus [illegible] excrementum melancholicum [illegible] Volunt [illegible] excrementum [illegible] [illegible] recipiat [illegible] & ideo lienem è regione epatis positum.

An lien excrementum melancholicum ab epate recipiat? *Lienem circa excremento recipiendo tantum dicatum ex co[illegible]* [illegible] *negamus*, [illegible] excipiat, [illegible] & [illegible] vel [illegible] Si [illegible] ex [illegible] *Rondeletius* [illegible] acceptaculum, hanc [illegible] naturalis est totus in officio

&

[illegible] & [illegible] ipsa [illegible], atque eam [illegible] [illegible] excrementis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] adducat. Hoc [illegible] argumentum [illegible] sunt nimium. 4 [illegible] hujus receptaculi, aut [illegible] quam [illegible] in vena [illegible] ramu- [illegible] partem [illegible]. Caro non [illegible] [illegible] deferentes. 6 Nulla pars excre- [illegible] *Lienem* [illegible] partem ex- [illegible] excepto. 7 Absurdum est [illegible] [illegible] excrementi [illegible] in venam portæ, & postea in [illegible]. 8. Per [illegible] [illegible] excrementi [illegible] [illegible]. 9 [illegible] ratio est [illegible] receptaculum [illegible], quia [illegible] est [illegible] [illegible] probatur. 10. *Fr. Sylvius* [illegible] [illegible], & post multos [illegible] ad mortem usque [illegible] [illegible] in cadaverum plurimorum perscrutatione, [illegible] præ cæteris [illegible] lapidem [illegible], non inflatum, non [illegible], non [illegible] tamen putres observavit [illegible] [illegible] *Bartholinus* & [illegible] alio [illegible] *Car. Piso*. [illegible] & [illegible] *Bernardus* [illegible] contraxit, [illegible], Li- [illegible] in Vita ejus narrat *Laurens*. [illegible] fide [illegible] excrementa [illegible] probare.

[illegible] sanguinem [illegible] natura [illegible] *Bartholinus* [illegible] *Lienem* ex [illegible] Chy- [illegible] facultate ad se tracta [illegible] [illegible] [illegible] *alterare* [illegible] [illegible] cum epate. Quemadmo- [illegible] tunica vestitum, vafis [illegible] sanguis [illegible] est ita [illegible] [illegible], & plurimis vasis [illegible], cujus caro propria qualis [illegible] & [illegible] [illegible] plurimis & tantæ [illegible]. Nec [illegible] novam [illegible] in cerebro [illegible] [illegible]. 4. Patet hoc ex [illegible], qui est longe [illegible] ex trunco venæ portæ, ubi [illegible] pars Chy- [illegible] sanguinis aliquam dispositionem habentis. 6 itaque

An lien sanguificet ut epar?

[illegible], ex qua fit sanguis [illegible] etiam [illegible]. 4. Natura [illegible] corpore [illegible] [illegible] dum pacem [illegible] pulmonibus, renibus, organis sensuum, &c. aut si unicam facit eam in medio locavit [illegible] vel cauo, [illegible] &c. Lien [illegible] [illegible] in sinistro latere, & [illegible] dextro. 7. Epate deficiente & minuente augetur lien, & [illegible] sæpe visus [illegible] major & [illegible] epate. 8. [illegible] quin potius [illegible] coquendum crassiorem sanguinem, ut ita [illegible] [illegible]. 9. In fœtu [illegible]. 10. Quæ [illegible]. 11. Et vitalis [illegible] atque [illegible]. 12. Si auctoritates [illegible] *Aristoteles* lib. 3. de partibus [illegible] [illegible] natura epar & lien [illegible] & [illegible] esse & quod omnes partes [illegible] corporis [illegible]. *Plato* lienem vocat [illegible] epatis [illegible] vocant epar [illegible] & *Author libri de respiratione* [illegible] & *Arabes*, *Avicenna*, *Averroës*, & [illegible] *Archangelus* alterum usum lienis [illegible].

Quibus partibus lie sanguificet?

S[illegible] quem [illegible] à liene confectum?

Alij putant eundem cum epate, videlicet ad corporis [illegible].

Sed illi statuunt hoc non fieri, nisi necessitate postulante in epatis aliquo defectu, vel affectu vitioso.

[illegible] quædam confi[illegible] [illegible] ut ventri[illegible] pancreas, &c. atque ipsū [illegible] alias aliqua [illegible] commendare. [illegible] partes corporis [illegible] [illegible] lienem [illegible] vena [illegible] [illegible] corpore [illegible]

lacum,

[illegible] partes [illegible] verò. 3. [illegible] toto [illegible] corpore [illegible] [illegible] bus [illegible] est [illegible] & [illegible] in ho mine. [illegible] pars [illegible] cava [illegible] & facile putrescen- [illegible] mesenterio, & [illegible] partes [illegible] mesentericas. [illegible] cujus pars [illegible] nosa citius quã pinguedo in partibus [illegible] is homo magis est dispositus ad [illegible], quam [illegible] & [illegible] quam cor [illegible] mas putrescit sanguis arteriarum [illegible] 6. [illegible] hoc [illegible] rum substantiam habens [illegible] porta [illegible] ubi vero pars est [illegible] venæ [illegible] recto, in quo ob [illegible] venas natura posuit. In musculosis [illegible] venæ [illegible]

Hæ [illegible] permoverunt [illegible] ex chymo per [illegible] tam [illegible]. *Varolius*, *Pisonus*, *Tesserus*, [illegible] *Bauhinus*, *Sennertus*, & *Riolanus*, in Anth [illegible] venæ [illegible] chylum [illegible] per [illegible] non [illegible] Ad hæc [illegible] per mesaraicas [illegible] ad [illegible] Rationibus [illegible] partes [illegible] [illegible] ex [illegible] sanguine arterioso à corde trans- [illegible] chylus [illegible] Sano [illegible] sentit [illegible] sanguinem [illegible] hepar [illegible] hoc bilem.

Hofmannus & *Spigelius* per arterias mesaraicas [illegible] chyli portionem deferunt ad lienem, ut [illegible] *An cyli per* [illegible] *ad*

[illegible] differatur & per quas vias.

co[illegible] Q[illegible] [illegible] A[illegible] [illegible] manif[illegible] [illegible] natura [illegible] autem [illegible] per [illegible]

[illegible], [illegible] ad [illegible] [illegible] advertere [illegible] fibrillæ.

Alij [illegible] a [illegible] M[illegible] a [illegible] illam, [illegible] S[illegible] *[illegible]* [illegible] & [illegible] [illegible] & [illegible] *[illegible]* [illegible] per [illegible]

[illegible] per venas [illegible] & [illegible] [illegible] [illegible]

[illegible] & [illegible] probat [illegible] ter hos *[illegible]*, qui tamen in humore [illegible]

[illegible]

…motum tenuitas, laxitas vasorum, [illegible]

[illegible]

nus est & aquosi [illegible] ventr[illegible] com[illegible] [illegible] sanguinis [illegible] [illegible] co[illegible]catum [illegible] hoc est [illegible] a capitis [illegible] [illegible] [illegible] correspondeat [illegible] [illegible] potu [illegible] adducuntur a vis do [illegible] [illegible]

A[illegible] sanguinem [illegible] [illegible] *Columbus* [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] & [illegible] & [illegible] [illegible] [illegible] 4 [illegible] partes, quos [illegible] [illegible] [illegible] [illegible] [illegible] An [illegible] [illegible] [illegible] videre *C. Pi-so.* A[illegible] [illegible] apud *C[illegible]rum.* Et [illegible] corpo[illegible] [illegible] [illegible] Quando vero [illegible] [illegible] intercipitur, [illegible] reliquumque corpus parum connutritur.

Q[illegible]a[illegible] [illegible] [illegible]stuatur.

Dubium est [illegible] [illegible] [illegible] animalibus obtingere, qu[illegible] [illegible] & v[illegible] *Aristot.* [illegible] Chamæleonte verum [illegible] *Pansanius* ? An propter [illegible] [illegible] [illegible] ? Non [illegible]. Sed [illegible] careant, [illegible] [illegible] sanguine [illegible] & [illegible] habebit peculiaribus [illegible], superfluum [illegible] sanguine, [illegible] [illegible] [illegible], [illegible], &c. [illegible] careant, [illegible] [illegible] [illegible] impedita coctione [illegible], at perpetuam & naturalem hilaritatem habent.

Mi[illegible] [illegible] [illegible] his opinionibus [illegible] [illegible] nuper proce[illegible] [illegible] *Riolanus* , [illegible] [illegible] [illegible] [illegible] nutritionem, nec [illegible] [illegible] [illegible] per [illegible] [illegible] in ventriculum & [illegible] partem [illegible], per [illegible] & [illegible] [illegible] [illegible] ex ventriculo [illegible] per partes [illegible] [illegible]. [illegible] [illegible] [illegible] est [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ex [illegible] [illegible] [illegible], ex [illegible] [illegible] [illegible] a *Riolano* [illegible]. Nec aliud [illegible] [illegible] vivis docent.

Franciscus [illegible], *C. P[illegible]so.* & *Æmilius Parisanus* conten-dunt

[illegible] sine liene multa vivunt, quæ tamen vitales spiritus generant.

[illegible] excusari meretur.

[illegible] *Helmontius* [illegible] Archei [illegible]

An lien sit organū animæ sensitivæ?

[illegible] Ex famosis enim [illegible] membrum vitale; [illegible] 4. Vario- [illegible] & thora- [illegible] Apoplexia, Epilepsia, Incubus, [illegible] 2. Ve- [illegible] non concedet communis Anato- micorum sanorum consensus. 3. Lien sanguineus est in [illegible] sanguinis & [illegible] 4. Sunt animalia quæ & [illegible] etiam eo si [illegible] præter [illegible] 8. Lien morborum [illegible] [illegible] depen- dent.

Walæi de usu lienis sententia.

[illegible] *Ioh. Walæi* [illegible] [illegible]

alterius perf[illegible] corde adigeretur per arterias [illegible] illam sanguineam massam retineri à lien[illegible] tellas tantum bilem, ita lienem partem sanguinis [illegible] vel [illegible]

[illegible] dus humor postea destillando ex urina iterum elici.

In [illegible] [illegible] acidum converti [illegible] *Casserius* partes vocat q[illegible]

[illegible] in vetus [illegible] tentiæ. In [illegible] omnes co[illegible]

[illegible] ex hinc proven[illegible] *Heghmo*[illegible] [illegible] sapor, [illegible] repe[illegible] [illegible] fermentatum in [illegible] temper. [illegible] sangui[illegible] [illegible] fixum redd[illegible] [illegible] *Ioan. Theod. Schenckius* [illegible] materiæ. [illegible] non contracta [illegible] vitiosam.

[illegible] vero causam assignat *Heghmont* [illegible] calore suo, [illegible] promoveat ut motu [illegible] per fermen[illegible] [illegible] partem potulentam fiat [illegible] Quod [illegible] (Heghmontius.)

[illegible]

Glissonius [illegible] ad officia attribuit [illegible] a sanguine [illegible] (Glissonius detur.)

[illegible] ad

[illegible] semel cum eo co[illegible] cerebrum & medullam [illegible] fieri testamur, ferrique pedetentim liquorem [illegible] solidas partes nutriendas, partim ad glan[illegible] [illegible] etiam eo tempore quo maxime eo [illegible] lestes movent *Helmontius* & *De*[illegible] [illegible] succi albidi a sanguine separetur [illegible] bene excoctis [illegible], aut quibus ex[illegible] [illegible]

[illegible] ergo lien acidam sanguinis partem ex [illegible] trahit, & [illegible] [illegible]

Quomodo lien dicatur [illegible] [illegible] habitus, [illegible] vocata [illegible] &c. Unde illud:

Cor ardet, pulmo loquitur, fel commovet iras,
Splen ridere facit, cogit amare jecur.

Quomodo ex [illegible] Q[illegible] *Hippocrate* & *Galeno* notatum [illegible]

cra[illegible]

bus. 3. Per Lymphatica Vasa

cet divinus senex.

CAP. XVII.

DE RENIBUS.

E ... triplex repurgatur excrementum ...

... Lymphatica vasa ...

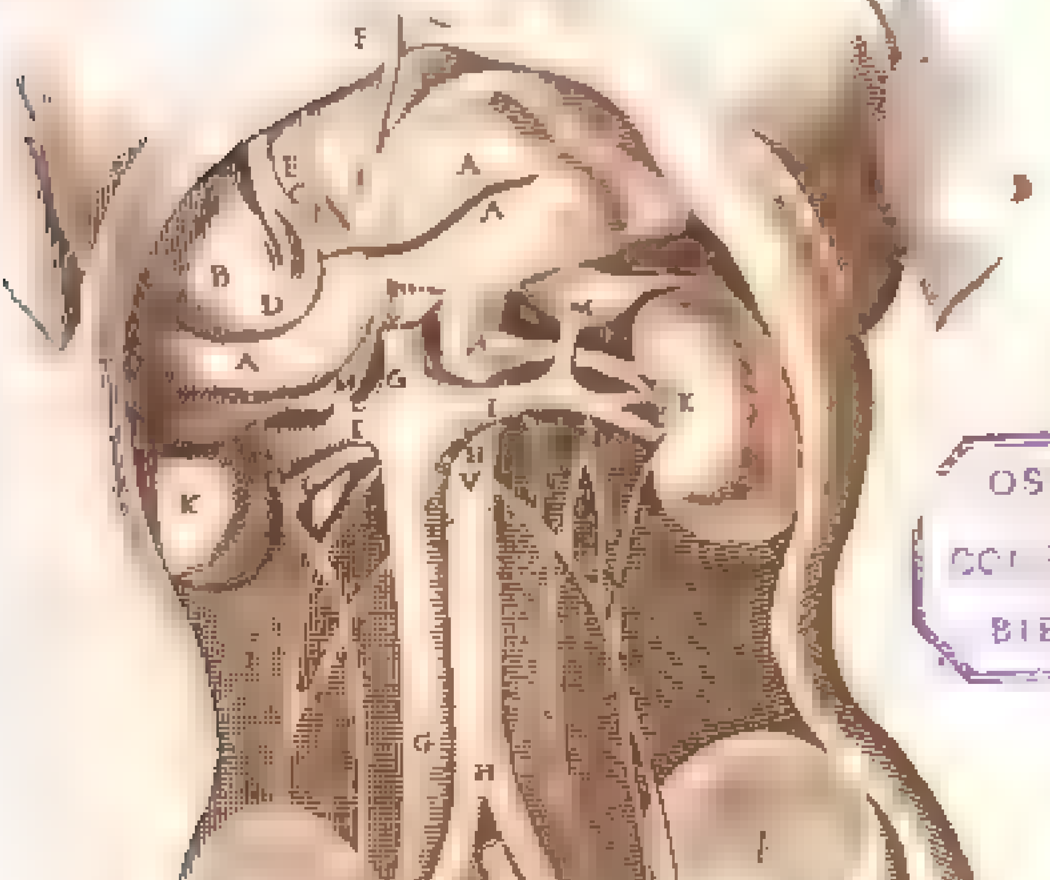
bell, ac Ventriculus.

... exemplis ...

FIGURÆ EXPLICATIO.

Indumentis [illegible], & [illegible] viscera in suo situ ostendit.

A A A. *Hepatis pars sima.*
B. *Vesicula fellis.*
C. *Ductus biliarius sursum reflexus.*
D. *Vena Cystica.*
E. *Arteria [illegible], cum ad vesiculam distributio.*
F. *Vena umbilicalis sursum revoluta.*
G G. *Vena cava truncus descendens.*
H H. *Arteria magna truncus descendens.*
I I. *Venæ emulgentes.*
K K. *Renes in situ naturali.*
L L. *Arteriæ emulgentes.*
M M. *[illegible] cum propaginibus ex emulgentibus distributis.*
N N. *Vreteres [illegible] ad vesicam descendentes.*
O. *Vesicæ urinariæ fundus.*
P P. *Vreterum ad latera vesicæ insertio.*
Q Q. *Vrachi portio.*
R. *Portio [illegible] intestini [illegible].*
S S. *Vena præparantes, [illegible] dextra ex trunco, sinistra [illegible] emulgente vena nascuntur.*
T. *Corpus pyramidale ex venarum & arteriarum præparantium unione ortum [illegible] lateri [illegible].*
V. *Arteriarum præparantium à trunco aortæ origo.*
X X. *Testes [illegible] communis [illegible] est [illegible].*
Y Y. *Vasa deferentia, quæ à testibus ad abdomen ascendunt.*
Z. *Penis.*
a a. *Scrotum quod testem sinistrum integebat, [illegible] paratum.*
b b. *Ilia.*
c c. *Ossa pubis.*
d d. *Lumbi.*



OSPED
[illegible]
CO OLA
BIBLIOT

una parte. [illegible] pars à communi causa efficiatur, alio [illegible] enim [illegible] tantum [illegible] [illegible] quatuor reperiuntur [illegible] [illegible]

Situs. *Situm* [illegible] & liene [illegible] duas peritonæi tunicas, [illegible] tera venæ cavæ & [illegible] magnæ, [illegible] nervi [illegible] Ratio [illegible] observavit *Cabrolius* [illegible] Nam [illegible] pars alia [illegible] præterlaberetur. Sed *dexter* [illegible]

Ren quinam altior? *inferior* est [illegible] certam vertebram [illegible] plerumque [illegible] liene superior est. In brutis contra [illegible] magis vergit, & ren dexter magis sursum, quare [illegible] renem quod in homine non fit, secundum naturam. [illegible] tant hic quidam, dextrum renem viciniorem esse cavæ [illegible] emulgentem quæ [illegible]

Magnitudo. *Magnitudo* [illegible] tamen magnitudo fere est quatuor vertebrarum [illegible] [illegible] [illegible] Sed [illegible]

Superficies. *Superficies* [illegible] *Marchettus* [illegible] *Vesslingius* quanquam [illegible] carnosum corticem [illegible] *Riolanus* prætendat. Ut [illegible] bove & aliis [illegible]

[illegible] ... orbes compa[illegible] ...

[illegible] ... In male at- *Color* ... & spat[illegible] ...

Figura. [illegible] ... plana superfi- ... & ro- ... & in ani[illegible] ... [illegible] ... leuter ne avel man ... [illegible] ... Hoc ... [illegible] ... cum aliis binis indigitavere.

Conne-xio [illegible] ... a per to ... [illegible] ... & con- ... exhaeretur ... etiam in eo fit ... [illegible]

Mem-brana. [illegible] ... proximá ... tenuissimam; à ... diffa- ... quæ ... & ... [illegible] ... [illegible] ... circumstan- ... [illegible] ... Unde ... *Scrutari renes.* Scr peura ... [illegible] ... כליות & טרות ... à *perscrutando quod* ... in rebus vis ... Hoc à טִיח ... טיח *linere*, *tellus*, ... & occultantur. *Scrutari* ... & Veneres delectat ... כִּלְיָה ... *R. Davide* & ... כלה ... & ex his fit ... libido ... hoc est occultū ... Venus noctes amat & occulta, quod fit in

FIGURARUM EXPLICATIO.

Tabula proponit renes, tum integros, tum diſſectos, ut vaſorum ingreſſus egreſſuſque ſpectentur.

FIG. I. Renum formam & emulgentia vaſa exhibet.

AA. *Membrana renum communis adipe circumfuſa ſeparata.*
BB. *Capſulæ atrabiliariæ, ſeu renes ſuccenturiati.*
CC. *Renes.*
D. *Membrana renum propria particula ſeparata.*
EE. *Truncus venæ cavæ deſcendens.*
FF. *Truncus arteriæ magnæ deſcendens.*
GG. *Ureteres.*
HH. *Venæ emulgentes.*
II. *Arteriæ emulgentes.*
KK. *Vena ſpermatica.*
LL. *Arteria ſpermatica.*
m. *Vena adipoſa ex emulgente.*
n. *Arteria adipoſa.*

FIG. II. Vaſorum emulgentium in renum ſinum partem ingreſſum demonſtrat.

AAA. *Renis diſſecti facies interna.*
B. *Pelvis ureteris.*
C. *Vena emulgens variis ramis in renem diffuſa.*
D. *Arteria emulgens multifariam diviſa, venæ ramuſculis ſeſe jungens.*

FIG. III. Ureteris exortum adumbrat.

AAA. *Ren diſſectus.*
B. *Sinus amplus, ſeu pelvis ureteris circa renem.*
C. *Ureter deorſum vergens.*
DDD. *Tubuli ureteris carunculas amplectentes.*
EEE. *Carunculæ papillares.*

FIG. IV. Carunculas oſtendit.

AAA. *Diſſecti renis aſpectus.*
BBB. *Ureterum, quæ carunculas ambiunt, ora aperta.*
CCC. *Carunculæ papillares dictæ, quæ urinam in renis tranſcolant.*

FIG. V. Apertus Ren in ſinum uſque exhibetur.

AAA. *Ren per gibbam partem diviſus.*
BBB. *Caruncula per medium ſecta.*
CCC. *Tubuli ureteris.*
D. *Vulnus in ipſum uſque ſinum penetrans.*

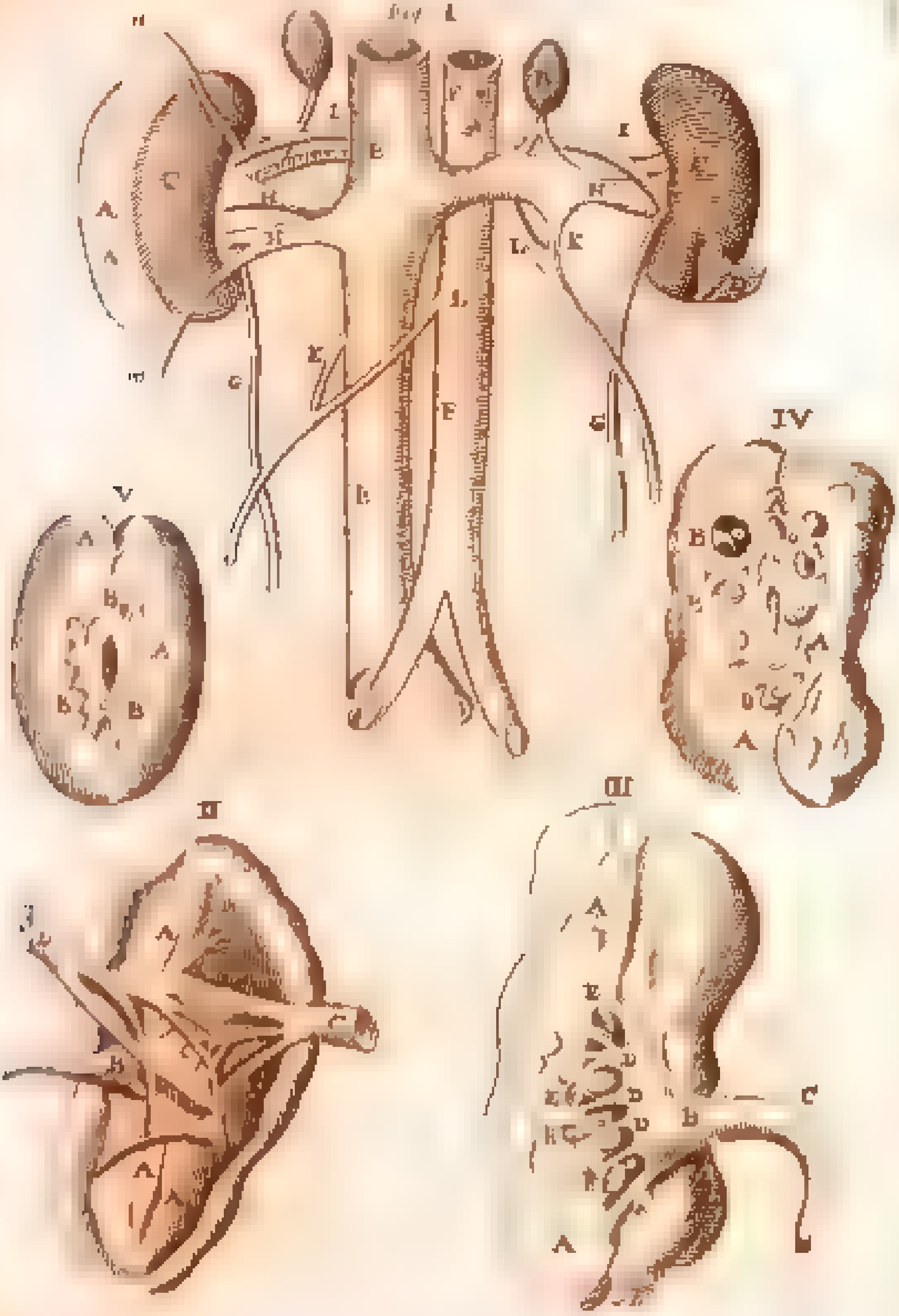


Fig. I.
IV
V
II
III

[illegible], quæ [illegible] glandulo[illegible] [illegible] [illegible] *Fallo-* [illegible], tacit[illegible] [illegible] [illegible] Renum [illegible]riam hactenus receptam:

[illegible] nos accepere extern[illegible] *Fallo-pio* [illegible] vasa [illegible], & primum ingrediuntur bipartita, statim vero [illegible] [illegible] [illegible] vero [illegible] [illegible] habent [illegible] & aperte [illegible] *Russo*, [illegible] non[illegible]. *Carun-cula.*

[illegible] & duriores reliqua carne. Primus eas [illegible] vis *Rondeletius* se primum inventorem [illegible] [illegible] esse perforationes, ne san[illegible] [illegible] & [illegible] fit renibus male affe[illegible] [illegible] meatus ramos percolari non dubitat *Eu-stachius* [illegible] *Laurentius* [illegible] pro[illegible] *Bauhinus* [illegible] *Eustachium* [illegible] *Venam* cavam.

Vena & arteria emulgentes. [illegible] *Bassio* [illegible] *Renales* vel *Emulgentes*, [illegible] in corpore [illegible] *Bauhinus*, proto [illegible] ingrediuntur, sed [illegible] docet experientia. *Vena in venam.*

 [illegible]

FIGURARUM EXPLICATIO.

Ex *L. Bellini*.

FIGURA I.

Renis humani ab [illegible] usque per longum [illegible].

AAA. *Ren dissectus.*
B. *Ureteris dimidium ad dextram reflexum.*
C. [illegible] *Ureteris medietas ad* [illegible] *secunda.*
D. *Venæ Emulgentis ramus.*
E. *Arteriæ Emulgentis ramus.*
F. *Alter venæ Emulgentis ramus.*
G. *Pelvis Ureteris.*
HHH. *Quædam papillaris corporis portiones à Pelvis tunicis conspicuæ.*
I. *Principium Ureteris.*

FIGURA II.

Hunc [illegible] Pelvis vas[illegible] [illegible], ut intus & [illegible] Renis [illegible] ductuum repræsentetur.

AA. *Extrema filamenta ad externam superficiem desinentia.*
BBB. *Renalium ductuum ostiola, quæ papillare corpus sortim efformant.*
CCC. *Guttulæ seri à papillari corpore digito expresso effluentes.*

FIGURA III.

Ejusdem papillæ portio separata.

AA. *Fibrarum extremitates ad superficiem Renis protensæ.*
BB. [illegible] *ejusdem papillæ pars, ex qua*
CCC. *Guttulæ seri eliciuntur.*

FIGURA IV.

Cervicis papillæ portio à Rene separata.

A. *Cervicis papillæ* [illegible] *pars, ex qua serum exprimitur.*
B. *Filamenta ejusdem à Pelvi ad* [illegible], *quæ Renis superficiem continua.*

[library stamp]

[illegible] *venæ emulgentes* [illegible] ... desinunt, in quæ serum transfundunt, [illegible] genres ad [illegible] ... Emulgenti sinistro quibusdam [illegible] ... arteriæ non leviter promovent.

[illegible]

2. *Ad* [illegible] nistram à cava productas ad [illegible] ... *adi-*[illegible] ... non unquam ex aorta [illegible]

anter

[illegible] parum excrementum trahunt.

[illegible] *Nervi.*

[illegible] procedunt, [illegible] Hinc explicare do- [illegible] *Cur in calculo renum vomitus?* [illegible] vasa [illegible] intricata inflammantur.

Vasa Lactea propter viciniam renum communicare [illegible] *Lactea* *Hist. Lact. Thor.* suspicabar, quia brevi [illegible] vomitur, [illegible] potatores citissime & copiose [illegible] lac, cum potus talis brevi redditur, [illegible] fuit [illegible] phriticos exhibita lithontriptica statim [illegible] [illegible] mora [illegible] & [illegible] & [illegible] *Defens.* [illegible] ob [illegible] notis, vanæ [illegible] immediate *Lymphatica.* [illegible] *Lymph.* [illegible] [illegible] aliquando [illegible] tendendos.

[illegible] *structura* [illegible] est in homine. Nam *alia in* [illegible] *Structura renis canum.* [illegible] bus [illegible]

 [illegible]

Vesal. error.

[illegible]

Pororū figura.

[illegible]

Quomodo fiat secretio?

[illegible]

In renū usu Aristotelis error.

Urina quomodo fiat.

[illegible]

[illegible]

cava & aorta per emulgentia vasa.

An generent sanguinem? *Bevervicius* sanguificationem quandam [illegible] 1. Quod [illegible] & [illegible] vasa [illegible] [illegible] potest non observata habere, [illegible] debuerunt habere [illegible] quo [illegible] purgarent, ita ut [illegible] c[illegible] sine sanguinis [illegible] in [illegible] & [illegible] modo [illegible] fragiles & quasi putres, [illegible] & [illegible] quod [illegible] senes ægrotaverint, aut quod [illegible] bono [illegible] sanguis [illegible] 3. Quod [illegible] calculo [illegible] causam solent, quod [illegible] renibus [illegible] 4. Quod [illegible] ex [illegible] [illegible] & [illegible], verum [illegible] quod a [illegible] renibus, aut non [illegible] corpore [illegible] serum aut renibus obstructis [illegible] [illegible] Si tamen asserere [illegible] quod [illegible] sanguinis circulationem, sanguis hic paulo [illegible] simplici vase immutetur, non [illegible] quidem sanguinem mutant, sed pro reliquo corpore tantum serum expurgant.

CAP. XVIII.

DE CAPSULIS ATRABILARIIS

HÆc [illegible] a plurimis negliguntur, nec [illegible] [illegible] semper & in omnibus cadaveribus [illegible] [illegible] contradicat *Archangelus*. Neque [illegible] [illegible] capsulas ex [illegible] materia, ut [illegible]

Inventor primus. [illegible] hoc in corpore [illegible] *Bartholomæo Eustachio* [illegible] & [illegible] *Archangelus* & *Bauhinus*. *Casserius* [illegible] [illegible] *Wharton* [illegible] venis [illegible]

Situs. Sunt vero capsulæ [illegible] *situ* [illegible] parte [illegible] & membrana [illegible]

Numerus. *Numero* [illegible] maior [illegible] aliquando [illegible]

nia, olim

[illegible] eandem [illegible] minores figu-[illegible] & [illegible] magnitudes [illegible]

Magnitudo [illegible] dextra [illegible] tamen & [illegible] humidiores, & [illegible] chol[illegible] continet quem cum [illegible] fed coacervant, h[illegible] capsulæ distantur. In [illegible] fiunt quanquam pro-[illegible] paulatim [illegible] excernitur ob robur natu-[illegible] exficcatur, quo [illegible] quia crescunt [illegible] tamen [illegible] adulto ob atræ bilis [illegible] magnitudinem [illegible] observavit [illegible] quam [illegible] in vesicam non [illegible].

Magnitudo. Vide Tabulam.

Cavitatem [illegible] magnitudinem [illegible] major ex-[illegible] quam fœtu, extrema totius fere [illegible] ambientem, [illegible] humorem quendam [illegible] fœculentum & nigrum, [illegible] apparent. In [illegible] minor appareat. Minor cavi-[illegible] non [illegible] *Renum*, vel videre [illegible] vix [illegible] tantam, ut [illegible] [illegible] recepti [illegible] [illegible] tamen excernunto [illegible] & recepta [illegible] sanguis [illegible]. *Laurentius* [illegible] *Rotundum* [illegible] [illegible] *Blasius* [illegible] observat [illegible] notat *Ventriculum*. [illegible] producunt *foramina* [illegible] [illegible] Cavitatem [illegible] *valvula* [illegible] clarum.

Cavitas.

Renes notata.

Figura & substantia [illegible] respondent, [illegible] quod [illegible] quam parvi renes ma-[illegible] *Casserio* renes succenturiat.

Figura & substantia.

dicun-

FIGURARUM EXPLICATIO.

Capsulæ atrabilariæ hominis & aliorum animalium exhibentur. In quibus omnibus

A. *Capsulas integras repræsentat.*
B. *Easdem a* [illegible] *ut in conspectum veniant cavitates, in* [illegible] *diversa forma variat.*
C. *Venas & arterias earum indicat, tum ab aorta & cava, tum ab emulgentibus enatas.*
D. *Vena est cava.*
E. *Arteria aorta.*
F. *Vasa utriusque lateris, emulgentia dicta.*
G. *Renes decurtati.*

dicuntur. [illegible] vero [illegible] sunt substantia [illegible] centis [illegible] ga, [illegible] dem [illegible] cernuntur.

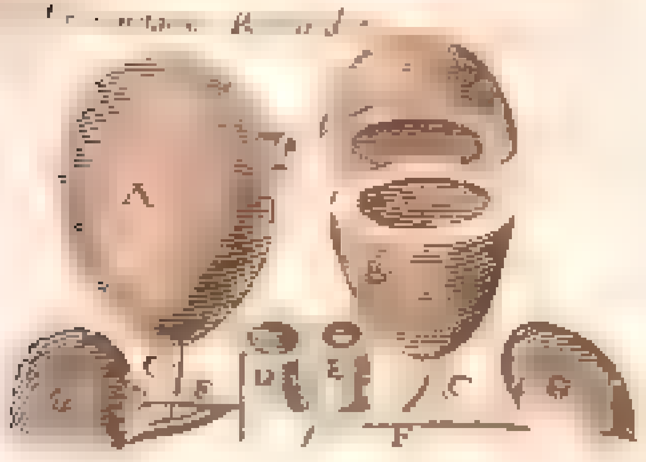
Connexu. *Connectuntur*, [illegible] externum [illegible] branæ adeo [illegible] membranæ [illegible] fit, ut [illegible]

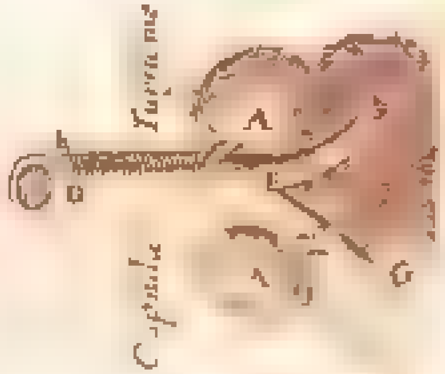
Vena & arteria. *Vasa* [illegible] *venas & arterias* ex [illegible] co derivatas [illegible] quando autem [illegible] tur, [illegible] & [illegible] los, modo [illegible] In dextra parte semper à [illegible] cavæ [illegible], in sinistra ab emulgente teste *Mar* [illegible] *to*. [illegible] arteria [illegible] ex emulgente [illegible] ex aor- [illegible]

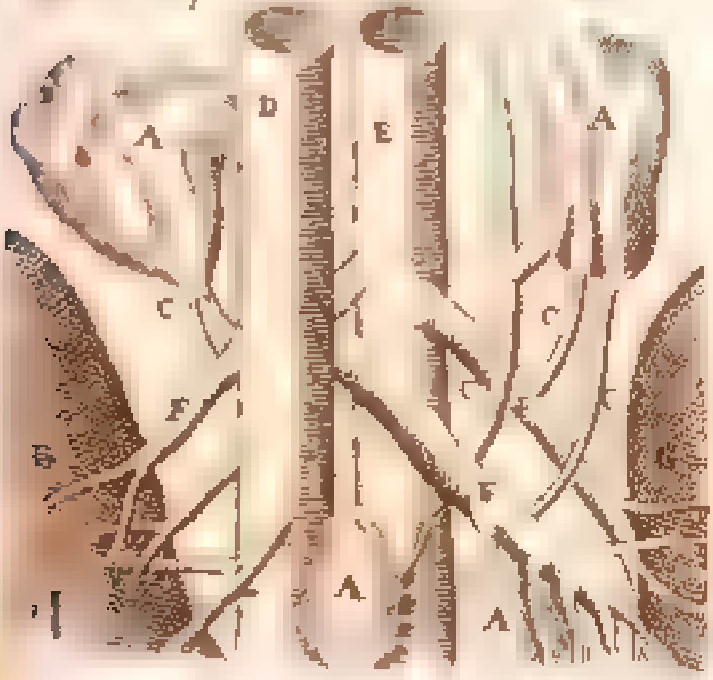
Lymphatica vasa. *Lymphatica vasa* [illegible] Existimat enim *Balthasar van den Grevers* [illegible] post ad *Dempsigium*, [illegible] bus [illegible] glandulis [illegible] aquæ ductus, [illegible] duodenum oriuntur, [illegible] & [illegible] post [illegible] & [illegible] *Barsum*, [illegible] præterea a Lymphatic[illegible] Receptaculum [illegible] capacitatis [illegible] ampliore [illegible] succenturiatos [illegible]

Nervi. *Nervos* accipiunt hæ capsulæ. Nam circa principia a te-

rarum







[illegible]

Usus secundum Authorem. [illegible] quid conjicere licet, [illegible] & ductibus omnino licet, di- cemus recipi in his [illegible]

Defensus contra Highmorum. [illegible]

Et Marchettu. [illegible] *Marchettus* [illegible]

Secundum Veslingium. [illegible]

Secundum Olhafium. [illegible]

Nullus autem de viis [illegible]

[illegible]

[illegible] ex hoc fert ad has cavitates, [illegible] venis [illegible], per nervum [illegible] partis [illegible] continentur [illegible]

[illegible]

[illegible] & haec [illegible]

[illegible] & [illegible]

[illegible] Spege. & [illegible] — Spigelius, [illegible] *Rolfincius, Lauremberg* [illegible]

An in adultis habeant usum? — [illegible] accedens [illegible] & [illegible] *Kerkringius* [illegible] generando [illegible] vena [illegible] Hae [illegible] probat [illegible] 3. [illegible] 4. Adeo [illegible] 5. Nec glandularum usus in adultis cessat, [illegible].

CAP. XIX.

DE URETERIBUS.

Ureterū. URETERES [illegible] vasa, ob [illegible] expurgat [illegible], nam a renibus in vesicam advehentes.

Numerus. [illegible] ureteres bini sunt, utrinque unus, [illegible] *van Horne*. [illegible] *Rolsincius*, & [illegible] *Laurembergius*. *Salmuth* [illegible].

Situs. [illegible]

Hebenstr.

leam lata. A[illegible] calculosis dissectis, sæpius vidimus cavi[illegible] [illegible] digitos admittere, imo æqualem inte[illegible] [illegible].

Figura. *Figura.* [illegible]

Membrana. *Membranam* [illegible] distendi queat, donarunt.

Vasa. [illegible] *& arterias* [illegible]

Nervos vero [illegible] *Laudano* [illegible] dis[illegible]ibus.

Usus. *Usus est* ut per eos [illegible] a sanguine [illegible] in vesicam [illegible]

Error Asclepiadis, & Paracelsi. [illegible] *Asclepiade*, [illegible] *Paracelsus*.

CAP. XX.

DE VESICA URINARIA

Vesica situs. VEsica [illegible] *Marchettus* [illegible] *Jo. van Horne* [illegible] locum [illegible] *Hist.* [illegible] paramus.

Magna

Magnitudo [illegible] lineares, ea [illegible] pulmonem non ha- [illegible], veficam quoque non habeant: & prout va[illegible] aliquando enim plena in ventre promineat tacta deprehendi queat, aliquando vacua in fectionibus [illegible] ob [illegible] tatem, quæ inftar pyri [illegible] eft. *Magnitudo.*

Figura [illegible] oblonga pyri inftar & rotunda, ut ca- [illegible] habet vefica, raro [illegible]. Qualem in puella [illegible] *Figura.*
[illegible] ex Anato [illegible] adnatam, ut tamen [illegible] bat. De vefica [illegible] Magnus Cafaubon [illegible] *Bauhinus* [illegible]

[illegible]

[illegible] Ita volente natura, ut ficut animus ejus im- mortales, ita corporis fingularis conftitutio [illegible] *Bevcrovicius*. A fundo fenfim coarctatur in col- [illegible] duæ [illegible] partes, *fundus*, & *cervix*.

[illegible] & [illegible] *Connexio.*
[illegible] veficatas, ut hom[illegible] unde veficæ & umbilici [illegible] dolor a calculo veficæ magno. *Cervix* [illegible] in fœminis collo uteri & vicinis [illegible] coxi- [illegible]

[illegible] membranofa ad robur, extenfionem *Subftantia.* [illegible] & [illegible] ventrem tota [illegible] excepto *Aquapen- dente* [illegible]

Prima membrana eft externa & communis, a peritonæo *Membranæ.* [illegible]

FIGURARUM EXPLICATIO

I & II Ve [illegible]

FIGURA I.

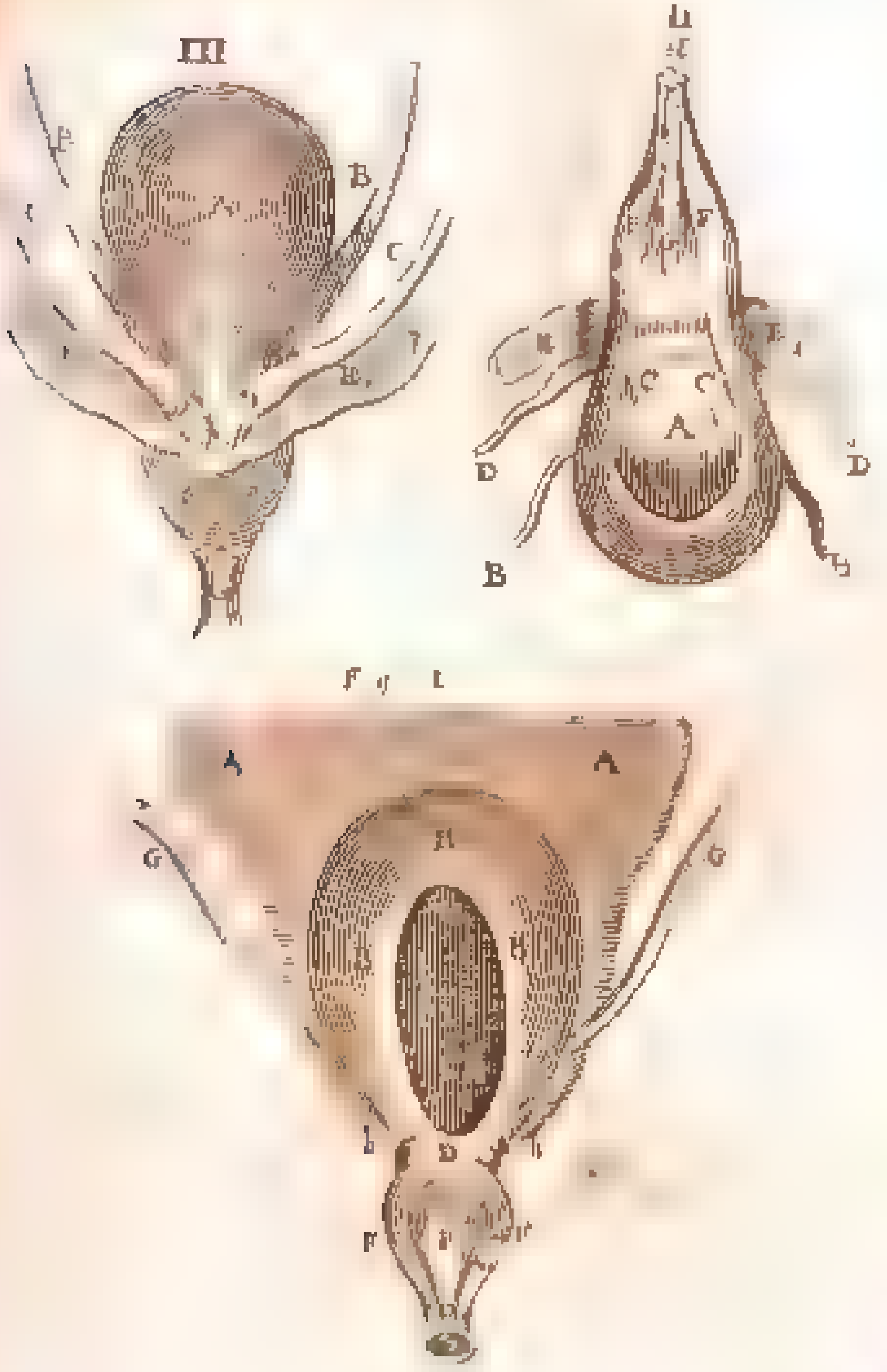
A A. *Tunica vesicæ communis*
B B B. *Tunica* [illegible] *fibris, donata.*
C. *Tunica* [illegible]
D D. *Cervix vesicæ.*
E. *Vesica sphincter.*
F F. *Glandula prostata.*
G G. *Ureterum portio.*
h h. *Eorundem inter* [illegible]

FIGURA II.

A. *Vesica aperta interna tunica.*
B B. *Ureterum pars.*
C C. *Orificia ureterum in vesicam deducta.*
D D. *Vasorum deferentium* [illegible]
E E. *Vesiculæ seminales ex parte.*
F F. *Glandula prostata divisa.*
G. *Foramen à vesica* [illegible] *principium* [illegible] *vula prædictum.*
H. *Meatus seminis urinæque communis.*

FIGURA III.

A. *Vesica posterior facies externa* [illegible]
B B. *Ureteres.*
C C. *Vasorum seminis deferentium portio.*
D D. *Capitula seminales.*
E E. *Eorundem fines.*
F F. *Vesiculæ seminales cellulas exprimentes varias.*
F F. *Glandula prostata.*
G. *Urethra.*



Aorta [illegible] & propr[illegible] [illegible]

[illegible] excalpuntur [illegible] [illegible]

[illegible] conf[illegible] [illegible]

[illegible] ortum [illegible] [illegible] *Bor*[illegible]

[illegible]

sa & vasorum tunica.

[illegible] *substantia* [illegible]

[illegible]

Crystal- [illegible]

[illegible] *musculus* [illegible]

[illegible] constantia [illegible]

[illegible] contrahendo [illegible] *Atque* [illegible]

[illegible] *Aqu. pendentis* [illegible]

[illegible]

[illegible] *Bo*[illegible]

[illegible] pellitur [illegible]

[illegible]

Foramen [illegible] *Highmo-*

[illegible] tamen in totum proprium.

Est

per *Cervix.*

[illegible] *magis oblon-*

[illegible]

Musculus constrictivus vel sphincter.

[illegible]

vel alio affectu lædatur, fit mictio involuntaria.

Fibrarū sphincteris descriptio in fœmina

[illegible]

In Viro.

[illegible]

Vasa.

[illegible]

[illegible] cervicem petentibus.

[illegible] gnes a sexto pari & medulla ossis sacri *Usus.*

[illegible] *Lonado*, *Holerio*, *Scroneckio*, *Iulio* [illegible]

 ctose

[illegible]tore *Holleriis Mundanel* [illegible], *Dodonao*, cu[illegible] ma[illegible] recens est exem[illegible], [illegible], & quo[illegible] [illegible], ex nap[illegible] *Jo[illegible] van Horne* [illegible] tempore expellere.

De [illegible] hæc observa[illegible] *[illegible]* Neu[illegible] [illegible] tur partesque [illegible] ras secari [illegible] in *oleo[illegible]*, ut & l[illegible]quore [illegible] aut Tar[illegible] [illegible] ratur, non alter[illegible] [illegible], sed [illegible] [illegible] [illegible] vel [illegible], ad [illegible] [illegible] [illegible], vel salsa, vel oleosa injiciuntur.

CAP. XXI.

DE VASIS SPERMATICIS VIRILIBUS PRÆPARANTIBUS.

HActenus [illegible] organa [illegible] procrea[illegible] [illegible] seu generation[illegible], [illegible] habent [illegible] [illegible] alter in mulieribus. In viris [illegible] primo occ[illegible]

Vasa spermatica [illegible], *duæ* [illegible] *vena* [illegible], & *una arteria*.

Vasa spermatica, & earum ortus. *Vena dextra*, [illegible] vena cava [illegible], par[illegible] [illegible] [illegible] *sinistra* ab emulg[illegible] [illegible] beret aortam [illegible] & [illegible] [illegible] [illegible] potest [illegible] [illegible] [illegible] quodammodo & [illegible] a cava, [illegible] ex utroque loco [illegible]

Arteria [illegible] utraq[illegible] ab arte[illegible] [illegible] [illegible] [illegible] transversorum [illegible] genitibus.

Magnitudo *Magnitudo*. Vasa hæc [illegible] [illegible] quam [illegible] [illegible]. Arter[illegible] vero [illegible] [illegible] & [illegible] & [illegible] [illegible]. A[illegible] [illegible] [illegible] & forte [illegible]. A[illegible] [illegible] has venas [illegible] *Pavius*.

Ductus. H[illegible] [illegible] *[illegible]* [illegible], [illegible] [illegible] [illegible] [illegible] & [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible]

[illegible] nequeat venenum abstergere, [illegible] revera [illegible] in vasa, per [illegible] circulari.

[illegible] naturalis cor- [illegible] *Corpus varicosum.*

[illegible] tortuoso [illegible] ad testiculos tendit [illegible] *Graafius* [illegible]

[illegible] Barbarus [illegible]

[illegible] *Lymphatica* quæ [illegible] ad Receptaculum ex testi- [illegible] *Vasa Lymphatica.*

[illegible] cum nervo [illegible]

[illegible] & per ejus substantiam [illegible]

[illegible] *Usus.*

[illegible] anastomoses, [illegible] observavit *Hornio,* [illegible]

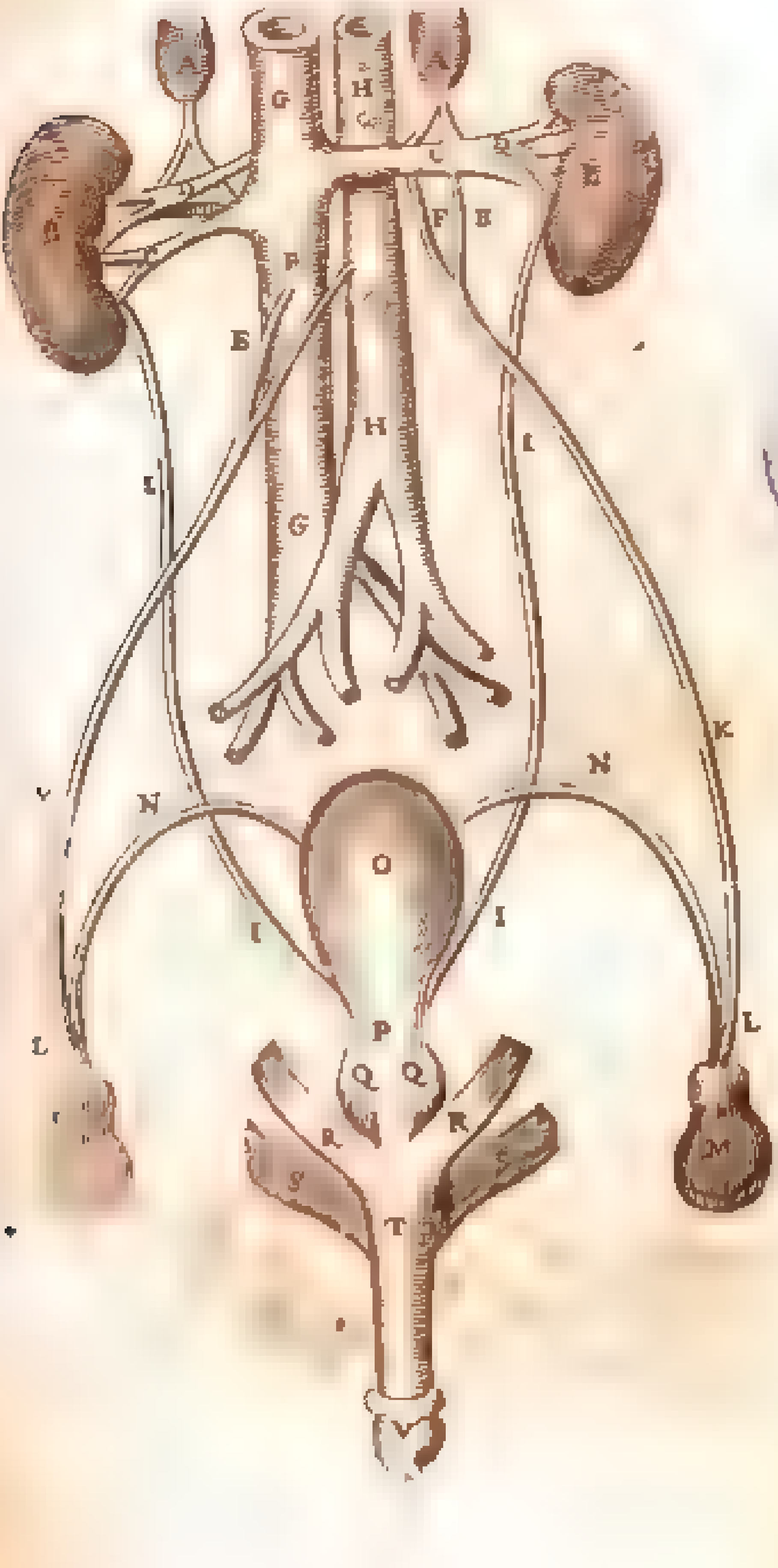
FIGURÆ EXPLICATIO.

Complectitur hæc Tabula Renes, Vesicam, Penem, & Vasa seminaria, prout e corpore exempta solent ostendi.

A A. *Renes succenturiati.*
B B. *Renes veri.*
C C. *Venæ emulgentes.*
D D. *Arteriæ emulgentes.*
E E. *Vena spermatica.*
F F. *Arteria spermatica.*
G G. *Vena cava truncus in ramos Iliacos divisus.*
H H. *Arteria magna truncus eiusdem divisus.*
I I I I. *Ureteres.*
K K. *Vasa semen præparantia.*
L L. *Eadem vasa ubi Pampiniformia constituunt.*
M M. *Testes omnibus suis involucris tecti.*
N N. *Vasa semen deferentia retro vesicam occulta.*
O. *Vesica.*
P. *Eius cervix.*
Q Q. *Glandula prostata.*
R R. *Musculi duo penem erigentes.*
S S. *Duo alii musculi urethram dilatantes.*
T. *Corpus penis.*
V. *Præputium glandem obtegens.*

[illegible] inter has enim & arterias [illegible] a [illegible] pervenerit probat *Graafius*, [illegible] ligatas liquor sistitur, nec in venas [illegible] rū, *Usus* est, sanguinem a testium [illegible] & [illegible] meratione superfluum revehere ad emulgentem [illegible] vel ad venam cavam [illegible] ubi vena [illegible] a cava propagatur. N[illegible] est, ne [illegible] per venas [illegible] materiā [illegible] a testibus superne re[illegible]. Nam per [illegible] tot [illegible] tellapites [illegible] & tot [illegible] necessaria [illegible] ve[illegible] plurimum [illegible], venas [illegible] maticas revehentes [illegible] testa[illegible] tant qua[illegible] acceperant. S[illegible] [illegible] ras [illegible] per venas [illegible] [illegible] [illegible] ut in externis partibus.

Nec


A
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TABULÆ EXPLICATIO

Exhibet Vasa semen [illegible] a Differentia Testiculorum, prout ea in [illegible] repræsentantur, ex R. de Graaf.

FIGURA I.

A. *Arteria semen præparans modo naturali ab Arteria Aorta truncο usque ad Testiculum excurrens.*

BB. *Ramuli arteriæ [illegible] ad Testiculum properans præter quâm ex hoc subladio, rursus absorbendo.*

C. *Ordinaria Arteria semen præparantis divaricatio in duos ramos.*

DD *Ramus [illegible] semen præparantis minor, qui ad Epididymidis excurrit.*

EE *Ramus Arteriæ semen præparantis major, qui superiori Testiculi parti implantatur, & per ejus dorsum descendit versus Testiculi partem inferiorem, cui annexus est Globus minor Epididymidis,*

atque rursus regreditur per Testiculi ventrem, ubi in plures [illegible].

F. *Globus Epididymidis major superiori Testiculi parti firmiter annexus.*

G. *Epididymidis [illegible] per [illegible] arteriæ ramificationes [illegible] inferior [illegible] comprehenditur.*

H. *Globus Epididymidis minor inferiori Testiculi parti firmiter adhærens.*

I. *Epididymidis finis, sive principium vasis semen deferentis.*

K. *Vas semen deferens, antequam ad vesiculas seminales [illegible] perveniat, abscissum.*

L. *Testiculus in ventre collocatus quo vasa ejus optime conspiciuntur.*

FIGURA II.

A. *Vena semen præparans à vena cava truncο descendente [illegible] modo usque ad Testiculum excurrens.*

BB. *Rami Venæ præparantis ad omentum & Peritonæum tendentes.*

C. *Prima Venæ præparantis divisio in duos ramos, qui postea rursus uniti modo subdividuntur, [illegible].*

DDDD. *Valvulæ [illegible] semen præparantis, circa quas vena, dum inflantur, nodosa apparet.*

EEEE. *Venarum [illegible] [illegible] [illegible] generationis superficiem, in una*

ramificationum divisione, per alteram abire reddire possit.

FF. *Superior Testiculi pars cui Venæ præparantis ramificationes in dorso implantantur.*

GG. *Ramificationes Venarum præparantium ad latera Testiculorum per tunicam albugineam repentes.*

H. *Corpus Testiculi.*

I. *Globus Epididymidis minor [illegible] Testiculi [illegible] firmiter annexus.*

M. *Vas semen deferens in medio, ubi abscissum.*

FIGURA III.

A. *Vas semen deferens [illegible] comprimendum.*

B. *Serpentini flexus [illegible] a fine Epididymidis ex parte soluti.*

C. *Minimi Epididymidis soluta.*

D. *Serpentini flexus circa medium Epididymidis [illegible].*

E. *Epididymidis pars [illegible] non soluta.*

F. *[illegible] pars circa medium Epididymidis ex parte soluta.*

G. *Ejusdem pars [illegible] soluta, quapropter videtur totum corpus Epididymidis esse [illegible] unicum vas contorquentium [illegible] Testiculi partem superiorem attingens magis magisque diminuitur.*

H. *Globus major sive principium Epididymidis, prope quod vas ejus in plures ramos dividitur.*

I. *[illegible] Testiculi.*

K. *[illegible] semen præparans quæ ab inferiori Testiculi parte [illegible].*

LL. *[illegible] præparantium ramificationes.*

fig I
fig II
fig III

Nervos [illegible] inter hæc præparantia primo loco no- *Nervi.*
[illegible] *Glissonius, Rogerius, Whartonus, Charletonus,* [illegible]
[illegible]
[illegible] Nec enim arterias [illegible]
[illegible] sanguinem [illegible] & [illegible] potius ca-
[illegible] partibus [illegible] seminis conficiendo
[illegible] teftes [illegible] ferentur, ca- *An ma-*
[illegible] in medio testiculi prope vas nervo- *teriam*
[illegible] *Whartonus* [illegible] sanguinem *seminis*
[illegible] pro materia [illegible] *vehant?*
[illegible] nervos autem [illegible] virtute plastica
[illegible] opposita notandum, 1. nervos
[illegible] animalem [illegible]
[illegible] constat. 2. [illegible]
[illegible] ex sanguine [illegible]
[illegible] vel [illegible] 3. [illegible]
[illegible] certe [illegible] factum,
[illegible] per [illegible] materia seminis advehatur [illegible] non
[illegible] per [illegible] 4. Nervos a sexto
[illegible] processos, [illegible] quoque inservire, [illegible] testi-
bus [illegible] & motum, nam [illegible] in congressu. 5.
Lymphatica vasa [illegible] serum vel ex arteriis, ut [illegible] vel
ex coctione [illegible] superfluum revehere. 6. Semen esse
sanguine nobilius, [illegible] est pars, ex cujus [illegible]
[illegible] magis debilitamur, quam si vigesies tantundem san-
guinis [illegible] 7. Cerebrum quoque [illegible] pro
[illegible] animalis [illegible] & sanguinis [illegible]
[illegible] substractionem.

Lacteas venas ex Receptaculo Pecqueti [illegible] testes *An ve-*
[illegible] cum vasis spermaticis, [illegible] *næ Lac-*
[illegible] *Ant. Everardi* est [illegible] *teæ?*
Bils. [illegible]
[illegible]
[illegible]
[illegible]
[illegible] & [illegible] & sanguinem [illegible]
[illegible]
[illegible] pars [illegible] per arterias [illegible]
[illegible] in corde sanguinis [illegible]

CAP. XXII.

DE TESTIBUS.

Testiũ. TESTES [illegible] TESTICULI [illegible] [illegible] attestus non [illegible] *didymi* [illegible] tur, quia communiter

Numerus. *Numero* [illegible] Cole [illegible] *Arriano* [illegible] memoratum [illegible] *Caesarem,* [illegible] *Fren* [illegible] & [illegible] German [illegible] *Vitalius Forellus Placentinus, Ro* [illegible] *Patavinus.* [illegible] hypchio [illegible] enterotece [illegible] *lius Zacchinius* [illegible] annotavit. Et *Riolanus* pater [illegible] quia materiam [illegible] facile ob [illegible] *Paraeus* [illegible] dit, sed [illegible]

Cur testes in viris foris sint. *Situs* [illegible] dicem penis in [illegible] tem, si *Aristotel* [illegible] bent ab [illegible] coeunt, & [illegible] echistorian [illegible] *Rolfinck* [illegible] diuturnior [illegible] mota [illegible] pem efficiat [illegible] *Laurenbergius* [illegible] externo [illegible] debebant [illegible] nia [illegible] penis [illegible] nec hoc [illegible] videmus, quae extra se generant.

Testes [illegible] ad pubertatem [illegible] tustle, [illegible] probat *Marc Rutandus,* [illegible] *terus & Paraeus &* [illegible] *Riolanus,* [illegible] rum [illegible] vitate [illegible] in [illegible] gr [illegible] difficultatem faciebat. In [illegible] teat [illegible] posit

Test [illegible] *Epidi* [illegible] *des,* quasi parv. test [illegible] & [illegible]

Magnitudo. sed in utr [illegible] *cap.* [illegible]

Magnitudo [illegible]

[illegible] quam in mulieribus.

[illegible] semenque magis percoctum habere. [illegible] vel marem generans dicitur, [illegible] & calidiorem à vase [illegible] arteria magna [illegible] & imbecil[illegible] *Hippocrates* [illegible] *& mulierem* [illegible]

[illegible] versum dicuntur frigidiores. Similiter etiam de [illegible] *Anaxagore* [illegible]

[illegible] *Aristoteles* naturam [illegible] dere generationem maris per se, tanquam [illegible] ctum, fœminam vero fieri, quando [illegible] marem gignere [illegible] natura videtur magis esse [illegible] ratione quam de viri [illegible] sunt liberis atque viri. Sed de hac re plenius [illegible] *Anat.* [illegible] *de partibus.*

O

Integumenta. *Integumenta* & involucra data sunt testibus, alia *communia*, alia *propria*.

Communia. *Communia* [illegible] partibus & [illegible] etiam ab externis [illegible] data sunt *duo*.

Scrotū. *Primum* ex cute [illegible] & cute [illegible], quam alii [illegible] nominant, & dicitur *scrotum* vel *scortum*, laxum [illegible] barbæ foris propendens [illegible]. *Mediâ* [illegible] *rugosum*, pinguedine caret, [illegible] &

Cur pinguedine careat. corrugat [illegible] Quia [illegible] [illegible] alias in [illegible] parte lineam habet secundum longitudinem extensam, [illegible] in duas partem dividit, *raphen* vocant.

Secundum ex panniculo carnoso constat [illegible] quam [illegible], & *dartos* dicitur, quod [illegible] contrahit ac comprehendat.

Propria. *Propria* tunicæ vel involucra, utrumque quemlibet testiculum investientia sunt *tria*.

Prima Tunica propria dicitur [illegible], id est, vaginalis [illegible] vero [illegible] est a forma, quæ [illegible] varia, venis referta, orta a peritonæi processibus, [illegible] annalectur [illegible] quas alii pro peculiari tunica recensuere, unde externa parte aspera, interiori vero lævis est.

Secunda [illegible] rubra, & fibris carnosis donata [illegible], [illegible] quæ [illegible] obducitur. *Rufus* hanc primo loco nominat, [illegible] *Riolanus* & *Veslingius* pro prima tunica habent [illegible] circumjecta, & a musculo cremastere propagatur.

Tertia ultima & intima immediate testis [illegible] ambiens, & veluti constringens, *albuginea* dicitur, alias nervea, quia alba est, [illegible] orta.

Substantia. *Substantia* testium est glandulosa, alba, mollis, laxa & spongiosa, [illegible] & caverniculis [illegible] quæ tamen cavitate, ut [illegible] & lien etiam cavitatibus carent. [illegible] Nam [illegible] & [illegible] *Harveo* [illegible] *Russo* [illegible] *Lindano*, [illegible] vocat *Riolanus*. [illegible] *Bauhinus* *Deusingius* *Benglarus*, [illegible] totus [illegible] totum vas [illegible] in Apriugno [illegible] vasa [illegible] & [illegible] propriæ

[illegible]

Ductus Hygmori. [illegible]

[illegible]

Vasa. [illegible]

[illegible]

Vasa Lymphatica. *Lymphatica* vasa in testibus [illegible]

FIGURARUM EXPLICATIO.

Testium tunicæ, substantia, & vasa proponuntur, ex *Veslingio*.

FIGURA I.

A A. *Cutis scroti separata.*
B B B. *Membrana carnosa, hic Dartos appellata.*
C C. *Prima testium tunica Elythroides.*
D D. *Musculus cremaster.*
E. *Secunda testium tunica, Autori erythroides dicta.*
F F. *Testium tunica albuginea.*
G. *Glandulosa Testis substantia.*
H. *Vas pampiniforme seu pyramidale.*
I I. *Epididymis.*
K. *Parastates variciformis.*

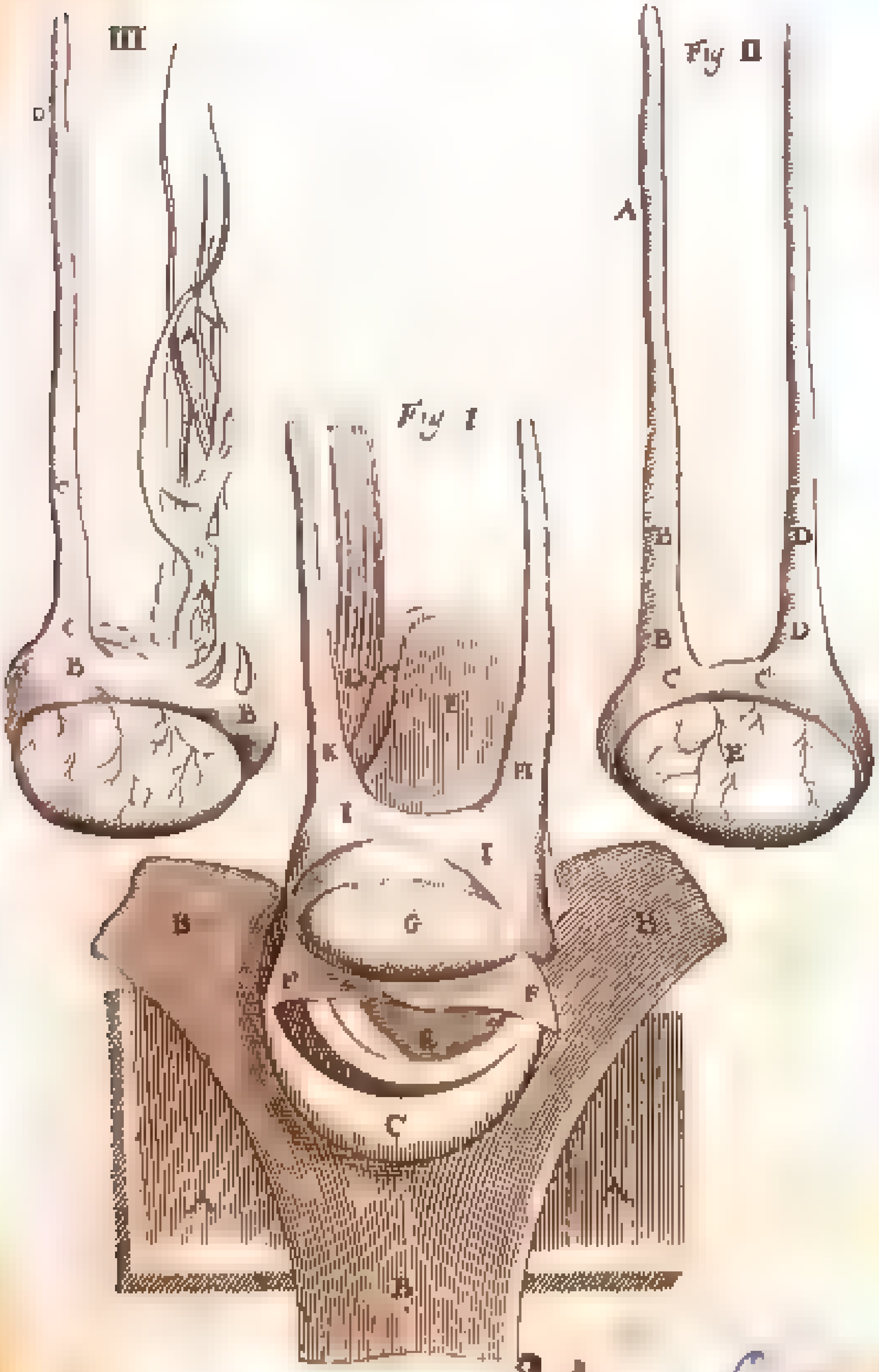
FIGURA II.

A. *Vasorum præparantium portio.*
B B. *Vas pyramidale.*
C C. *Epididymis.*
D D. *Parastates variciformis.*
E. *Testiculus membrana propria opertus.*
F. *Vasis deferentis portio.*

FIGURA III.

A A. *Vena & arteria in vase pyramidali explicita.*
B. *Epididymis.*
C C. *Parastates variciformis.*
D. *Vas deferens.*

Conspectiora illa in majoribus animalibus, tauro, equo, ariete, verre, quæ bene valvata sunt, in testiculis quoque viri, aliorumque animalium deprehendit *Glissonius*, nec dubitat quin in omnibus, licet haud æque facile, reperiantur. Depingit hæc vasa ex testibus scaturientia, ac vel canalem chylosum ab utroque latere ingredientia *Ol. Rudbeck*. In cane miræ magnitudinis vidit *Moinichenius* noster cũ lymphaticis e testibus adscendentia in glandulas Receptaculo vicinas. Accuratius *Whartonus* describit, quod *oriantur* ab ipsis testiculorum tunicis & inde venas per processum comitantia, abdomen ingrediantur, & venas paulò post deserentia


III
Fig II
Fig I

ferentia ad [illegible] *ereans* [illegible] ad *Receptacu*[illegible] [illegible] tha [illegible] *ke*[illegible] [illegible] *Graafio* credimus.

Ejusmodique usus. De *Usu* [illegible] non [illegible] *Vel ar-tenus* [illegible] *barlecon*, [illegible] contra [illegible] *Vester* [illegible] testium, [illegible] vestiis [illegible] *Rudbeckius*, [illegible] & [illegible] vasa vel [illegible], vel non [illegible] in [illegible] tis fero [illegible] lymphas [illegible] in testibus transit [illegible]. [illegible] quibus lymphae [illegible]. In [illegible] lym-pham nemo vidit. [illegible] non [illegible] teriis serū mittentibus, & lymphaticis non accip[illegible].

Motum lymphae a test[illegible] esse hoc experi[illegible] probat *Graafius*, nam [illegible] prope testes [illegible], [illegible] emittere, contra, si prope ligaturam.

Musculi. *Musculum* habent utrumque [illegible], ortum à l[illegible]mento va[illegible], quod [illegible] est, [illegible] transv[illegible] quorum [illegible] a [illegible] de [illegible] Incedunt autem per pro-cessum peritonaei, quem fere ambiunt, & [illegible] adnascuntur. *Dicun*[illegible] *Cremasteres* [illegible] suspensores, testes enim [illegible] suspendunt, ne vasa seminalia nimis de[illegible]. In coitu etiam testes retrahunt, ut canali semi-nario [illegible] semen advehatur. Quod tamen maxime [illegible] in nonnullis (musculos hos motus voluntarii esse [illegible]) qui pro arbitrio retrahere te-stes possunt, & [illegible] musculi procul dubio [illegible] sunt robustiores, ut testes non tantum con-[illegible] de loco [illegible] moveant.

Usus musculorum testium.

Seminis causa efficiens. *Usus* [illegible] calore & vi seminifica semen confice[illegible]. Seminis enim causa efficiens est [illegible] testium pro-[illegible] ob temperamentum cal[illegible] & humid[illegible], [illegible] ob specificam proprietatem, cum [illegible] corpore [illegible]. Convertunt autem sanguinem ex arteriis praeparatum in semen, quod pro conservanda specie

sequi

[illegible] rationem abit, vel [illegible]. Neque sine testibus semen u- [illegible] generatio fieri [illegible] non ordinaria & integra naturæ lege probat *Sennertus* [illegible] *Pauf. Caberlinus Hofmannus de Generat.* [illegible] tantis, quæ non multi quoque [illegible] generali [illegible] Ita [illegible] linas invenit, relicto in illis altero [illegible] Narrant autem [illegible] Sed contra [illegible] [illegible] quæ [illegible] & ca- [illegible] erat omnem auferunt post *Ar*[illegible] *Falloppius, Cornelius Posthius, Casp. Hofmannus, Casp.* [illegible] *Adr. Spigelius Regnerus* [illegible] a materia seminis, te- [illegible] nec dum in illa semen [illegible] Ipse vero primo [illegible] cum semine te- [illegible] substantia & [illegible] ones & castratorum [illegible] *Dodonæus* [illegible] Hofmanno, *Hofmannus* [illegible] cap. 18 [illegible] *Reneaume*, [illegible] nis [illegible] in moro [illegible] *Reneaume*, Dicit [illegible] cadaveribus [illegible] & generatum non fuisse [illegible] in morte dissipatis spiritibus eius locum aqueus humor substitutus; nec [illegible] per testem ad vasa deferentia pervenire potest quæ a testibus incipiunt sicut [illegible] ex Anatomicorum plurimorum observatione, & [illegible] testis [illegible] major sit, aliam causam reddunt eruditi.

Sine testibus non fit generatio.

Testes [illegible] conficere [illegible] *Marchetis.* [illegible] venæ a spermaticis ortæ ad testem [illegible] membrana [illegible] ambiant tamen testes & [illegible] 2. Nulla [illegible] sunt per quæ ex testibus semen [illegible] exeat, atque [illegible] vasa deferentia. 3. Semen [illegible] ve- [illegible] in Epididymidibus. 4. Nullam cavitatem habent. Igitur [illegible] testium [illegible] est, fovere calore Epididymidum,

TABULÆ EXLICATIO.

Exhibet Testiculos humanos cum suis tunicis propriis, & vasis, ex *R. de Graaf.*

FIGURA I.

A. *Vasorum præparantium partes abscissæ.*
B. *Tunica vaginalis omnia Testiculorũ vasa in se continens.*
C. *Musculi Cremasteris principium.*
D. *Musculi Cremasteris fibræ carneæ, quæ tunicæ vaginali annectuntur, atque per eius longitudinem expanduntur.*
EE. *Musculi Cremasteris fibræ carneæ in tunica vaginali obscure sive terminantes.*
F. *Tunica vaginalis testiculos continens.*

FIGURA II.

A. *Vasa præparantia transversim dissecta.*
B. *Vasa testiculorũ a tunica vaginali liberata, & per tenuissimas quasdam membranas sibi mutuo leviter connexa.*
CC. *Arteria semen præparans per ventrem Testiculi ascendens.*
DD. *Venarum semen præparantium ramificationes ad latera Testiculorum excurrentes.*
E. *Tunica albuginea Testiculi substantiã undequaque continens.*
F. *Tunicæ vaginalis pars retracta.*
G. *Globus Epididymidis major.*
H. *Epididymidis pars media.*
I. *Globus Epididymidis minor.*
K. *Epididymidis finis sive vasis semen deferentis principium.*
L. *Vas semen deferens abscissum.*

FIGURA III.

A. *Arteria semen præparans prout ordinarie in corporibus humanis reperitur.*
B. *Arteriæ semen præparantis divisio in duos ramos.*
CC. *Ramus arteriæ semen præparantis major ad Testiculum excurrens.*
DD. *Ramus Arteriæ præparantis minor ad Epididymidem properans.*
E. *Globus Epididymidis major Testiculo adhærens.*
FF. *Epididymis inversa, ut videatur qua ratione arteria sub illa excurrat.*
G. *Finis Epididymidis.*
H. *Vasis semen deferentis portio.*

TABULÆ EXPLICATIO.

Exhibet Testiculos [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] *Anatomicis*, quas ipse [illegible] hac editione præfixit.

FIGURA I.

AAA. *Tunica vaginalis Testiculi ad latera deducta.*

B. *Arteria præparans quæ antequam ad Testem accedat, de latere in [illegible] sursum deorsumque [illegible].*

C. *Vasa præparantia tenui quadam membrana invicem simul connexa.*

DD. *Arteria præparans per ventrem Testiculi sursum ascendens.*

E. *Vena præparantis [illegible].*

F. *Testiculus caninus [illegible] [illegible].*

G. *[illegible] Epididymidis major.*

H. *Globus Epididymidis minor.*

I. *Principium vasis seminis [illegible].*

K. *Vas semen deferens in cane [illegible] tum ligatum.*

FIGURA II.

A. *Vasa præparantia abscissa.*

B. *Vasa præparantia prout ad testes [illegible] currunt.*

C. *Vasorum præparantium ramificationes ad Epididymides tendentes.*

DD. *Arteriæ præparantis ramus maximus per ventrem Testiculi excurrens.*

EE. *Venarum præparantium ramificationes.*

F. *Testiculus Caninus semine turgidus.*

G. *Globus Epididymidis major semine turgens.*

H. *Globus Epididymidis minor similiter ob copiam seminis distentus.*

I. *Finis Epididymidis sive principium vasis semen deferentis.*

K. *Vas semen deferens similiter ante [illegible] [illegible] vasis præparantibus [illegible] [illegible] ligatum, ut vascula seminaria semine repleta clarius conspiciantur.*

FIGURA III.

AA. *Globus Epididymidis major [illegible] sus, ut videantur dictæ Epididymidis divaricationes, earumque progressus.*

B. *Superior pars testiculi ex qua vascula seminaria egrediuntur, quæ globum Epididymidis [illegible] constituunt.*

C. *Vasa præparantia abscissa.*

DD. *Vasorum præparantium divaricationes.*

E. *Corpus Testiculi canini.*

FIGURA IV.

A. *Testiculus caninus transversim dissectus.*

BBB. *Vascula seminaria prout inter membranas certo ordine collocata disparentur.*

C. *Radix Epididymidis Highmoro dicta.*

FIGURA V.

A. *Testiculus glires in quo vascula seminaria [illegible] præparatione [illegible] [illegible] semine turgent, ut per membranam [illegible] [illegible] [illegible] atque diducta [illegible] [illegible] spontè à se invicem secedant.*

B. *Vasa præparantia abscissa.*

C. *Arteria præparans.*

D. *Vena præparantis ramificationes.*

E. *Egressus Vasculorum seminariorum è Testiculo.*

F. *Globus Epididymidis maioris pars, [illegible] [illegible] Testiculo [illegible] [illegible] pars sursum [illegible].*

G. *[illegible] Epididymidis minor, cujus prima divisio in animali quasi in [illegible] [illegible].*

H. *Vasis semen deferentis pars.*

I. *Vasorum præparantium ramificationes ad Epididymides excurrentes.*

fig II
fig III
fig IV
fig. V.

TABULÆ EXPLICATIO

Exhibet testiculos humanos var[illegible] [illegible] [illegible] ex R. de Graaf.

FIGURA I.

A. *Principium Epididymidis, sive locus in quo Vascula seminaria tunicam Testiculi albugineam perforant.*

BBB. *Globus Epididymidis major [illegible] consistentes [illegible] ramificationes varia excurrentes [illegible], & cum in Testiculos ingressu.*

C. *Vasa praeparantia abscissa.*

D. *Vasorum praeparantium per tunicam [illegible] [illegible] a[illegible].*

E. *Tunica Testiculorum albuginea [illegible] [illegible] quam arctissime continens.*

FIGURA II.

A. *Corpus Testiculi à tunica albuginea denudatum.*

BB. *Tunica albuginea inversa & sursum protensa.*

CCC. *Vasorum praeparantium tunicam albugineam perforantium portiuncula abscissa.*

D. *Tunica albuginea dorso Testiculi propter membranas Testiculi ibi concurrentes firmiter adhaerens.*

FIGURA III.

A. *Substantia Testiculi a Tunica albuginea denudata.*

BBB. *Corporis Testiculi solutiones, quibus patet illud non esse glandulosum, uti prima fronte apparet, sed ex vasculis compositum.*

C. *Tunicae albugineae sursum protracta portiuncula.*

FIGURA IV.

AAAA. *Vascula seminaria Testiculorum inter membranas tenuissimas certo ordine collocata.*

BB. *Vascula seminaria per membranaceam substantiam Testiculi dorso adhaerentem excurrentia.*

C. *Vasculorum seminariorum tunicam albugineam perforantium portiuncula abscissa, antequam serpentino ductu ut videre est in Fig. I. BBB. globum Epididymidis majorem constituunt.*

DDDD. *Tunica albuginea in parte anteriori Testiculi aperta & ad latera deducta.*

FIGURA V.

A. *Testiculus transversim dissectus.*

BB. *Vasculorum [illegible] dispositiones.*

C. *Membranae [illegible] seminariae [illegible] confundantur desinentium [illegible] dorso firmiter annexis.*

FIGURA VI.

AA. *[illegible] corpus in anteriori parte divisum.*

B. *Urethra in superiori parte aperta.*

CCC. *Ductus glandulosi corporis denudati.*

D. *Foramina [illegible] per quam semen a Testibus & Vesiculis seminariis prostatas erumpit.*

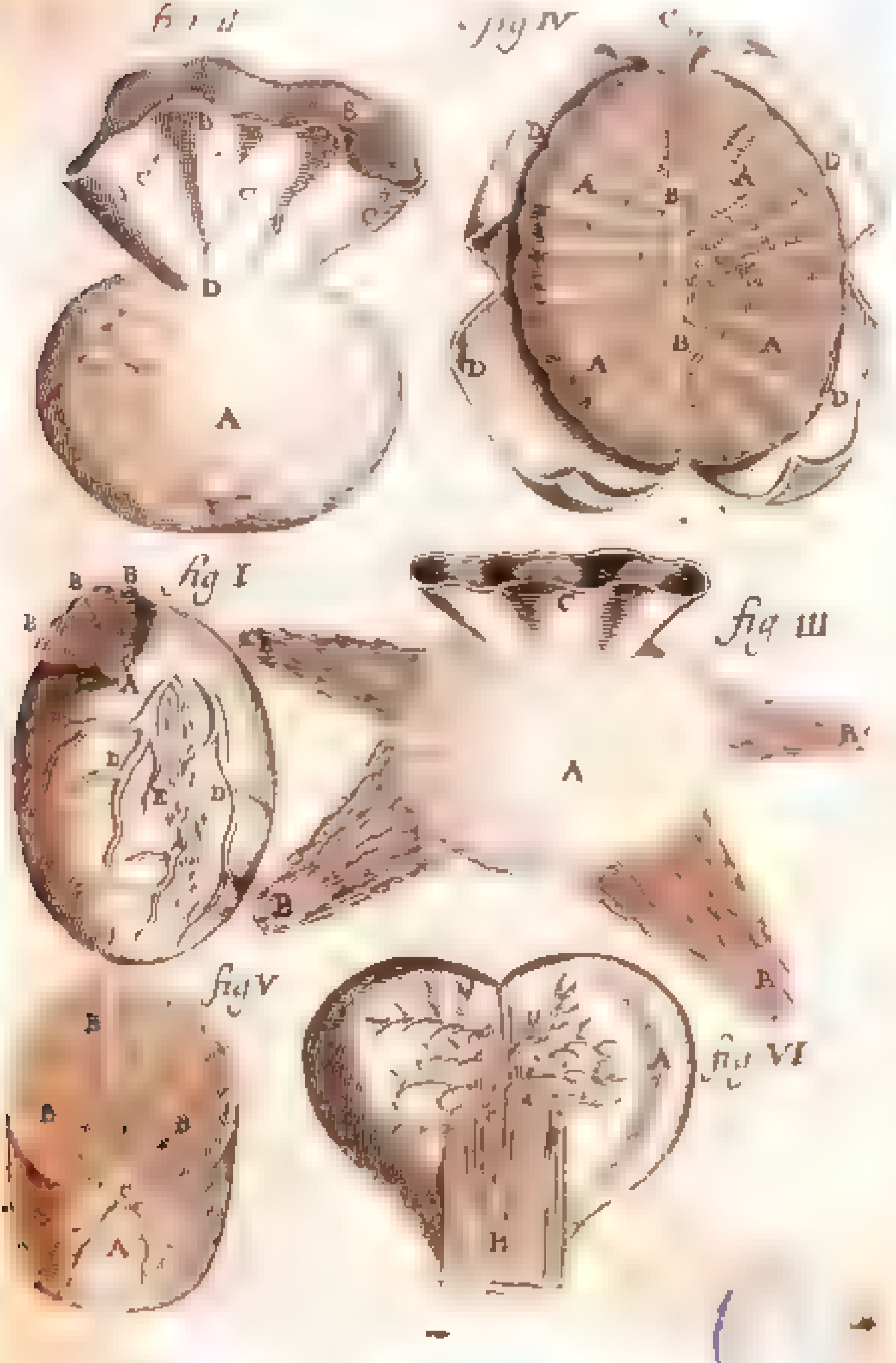


fig II
fig IV
fig I
fig III
fig V
fig VI

[illegible] *Mercati* placet spermaticos spiritus ibi eosdem non ge-[illegible] in testibus, sed ibi copia colligi, ut ex iis per totum corpus remeent, nam quae colliguntur, ad semen generationem [illegible]. Sed magis arridet *Th. a Vega* opi-[illegible] proposuit [illegible], auram quandam [illegible] generatione seminis elevari, [illegible] a corpus [illegible]. Certe non castratorum carnes seminis [illegible], quod castrata non habent. Aura ista ad cor pervenit sive per corporis spiracula interiora, sive per venas, vel lymphatica vasa, referentes ad cor generati seminis [illegible]. *Helmontius* actione Regiminis ad [illegible] applicatur, sicut stomachus in uterum [illegible], quae sine rectis viis aut notis, quas [illegible] quaerit Anatomicus, ubi potest. *Veslingius* [illegible] mutat [illegible] vocum temperamentum, [illegible], deinde [illegible] a copiosa materia, quae [illegible] in semen [illegible] oppressione. Consensus autem cum corde partim a nervis dependet, partim quia circulatione (quam in testibus defendimus) a venis dictis ad cor [illegible], quibus & cordialium vis ascendit, & refrigerantium, quemadmodum in extremis manuum cordialia & refrigerantia eodem successu applicamus. Consensum per nervos cum cerebro habent. Nam testatur *Grokius* & *Rogersius* juvenem libidinosum correptum Epilepsia vehementi ab exiguo tumore testium. Ex testis laesione vidit *Marchettus* convulsionem in maxilla inferiori.

Cap. XXIII.

DE VASIS DEFERENTIBUS, Ejaculatoriis, de Parastatis, Vesiculis seminariis, & Prostatis.

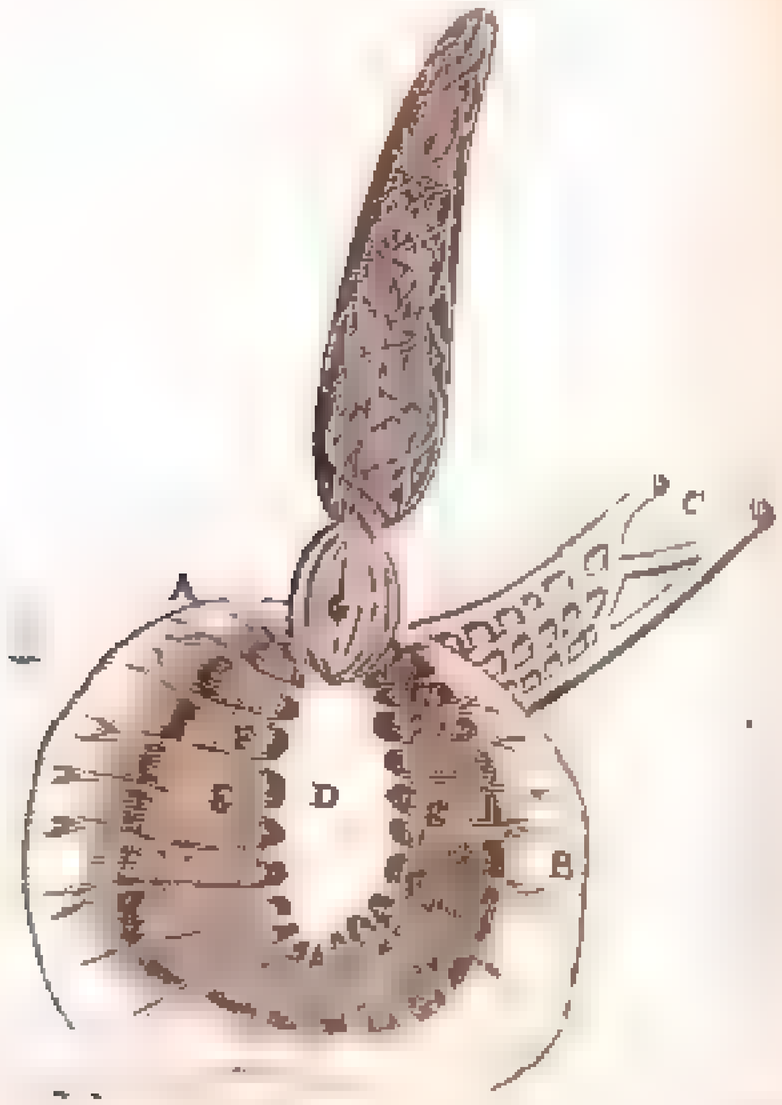
Vasa spermatica praeparatoria supra proposuimus, quae desinunt in testes, ad quas materiam pro semine advehunt.

Alia vero vasa sunt, quae incipiunt a testibus, & desinunt ad radicem penis, quo deferunt & ejaculantur semen [illegible] in testibus confectum. Suntque duo ea, a deferentia [illegible].

[illegible] autem haec vasa in principium, medium & finem.

Principium vocant *Parastatas*, quasi superficialiter testibus astantes, item *corpora varicosa*, seu *varis formia*, quia *Parastatae.*

vasa



FIGURÆ EXPLICATIO.

Testis substantia vasata, ex *Rauel. Duthorio*

A. *Testis per medium diffissus.*
B. *Tunica albuginea.*
C. *Vasorum præparantium in albugineam insertio.*
D. *Ductus Highmorianus.*
E E. *Vasa præparantia albugineam perforantia & ductui seminario circulari nexu commissa.*
F F. *Genuina testis virilis substantia vasata.*
G. *Exiles, ... modo plures, modo pauciores, è ductu, ubi semen ex ... emersit, in capite testis, exorta.*
K. *Vas ejaculatorium, recta Epididymidis continuatio.*

[illegible] Nomen.

[illegible]

Epididymidis divisio. [illegible] *corpus & caudam* [illegible]

Caput. [illegible]

Corpus. [illegible]

Cauda. [illegible]

[illegible] & mol-
lores evadant propter tenuitatem.

Quo-

Substantia [illegible] *substantiam* [illegible] Parastatæ [illegible] habent [illegible] quæ intus glandulosæ sunt, & [illegible] externus vero membranosæ.

Ortus [illegible], *Sylvius* [illegible] authoritates [illegible] per [illegible] a vasis seminariis [illegible] & vasa præparantia & parastatæ, & vasa deferentia [illegible] & [illegible] tantum [illegible] imponuntur nomina.

[illegible] per Anastomoses [illegible] venis [illegible], & circulationem [illegible].

[illegible] ortum [illegible] a testibus, per [illegible] observatas [illegible] cum venis & arteriis [illegible] est, quod ex sectione patere putat *Regnerus* [illegible] habeant.

Usus. *Usus* parastatarum est semen perficere & absolvere [illegible] testibus accepta. Deinde [illegible] semen [illegible] & [illegible].

Ulteriorem hic fieri elaborationem [illegible] apud [illegible] cos circulatione illa seu [illegible], contendit *Highmorus* [illegible] semen & [illegible] *Regerfio* placet, qui tamen post [illegible] semen [illegible] ad testes [illegible] a testibus [illegible] naturale per vias [illegible] conspicatur. Ex ductu [illegible] semen [illegible] ad caput Epididymidis [illegible], tunc per corpus [illegible] ad deferentia vasa [illegible].

Semen hic non elaborari primario. Semen [illegible] in Epididymidibus elaborari *Fordanus* [illegible] in vasis præparantibus [illegible] semen [illegible] sanguis [illegible] tempore [illegible] semel [illegible] Venereum [illegible] Epididymides [illegible] tam [illegible] tam sanguis trahit, hinc ex eo semen elaborari [illegible].

Nos, quia a parte testiū in hoc negotio [illegible], ad *Fordanus*

[illegible]

[illegible] vasis progressu.

[illegible] patens, in scroto, partim in cavitate ab- [illegible]

Fons est.

[illegible] *Varalus* [illegible] *Mela-* [illegible] *dungs* [illegible] hæc vasa continuant.

VESICULAS SEMINARIAS multas cellulas, quæ [illegible]

FIGURARUM EXPLICATIO

Ex R. de Graaf.

FIGURA I.

A. *Vena semen præparans à vena cava trunco descendente ad Testiculum excurrens.*

BB. *Rami venæ præparantis ad omentum & Peritonæum tendentes.*

C. *Prima venæ præparantis divisio in duos ramos.*

DDLL. *Fasciola venarum præparantium, circa quam venæ dum inflantur nodosæ apparent.*

EEE. *Venarum præparantium divisiones ac uniones plurimæ, ut sanguis à seminis generatione superfluus, in una ramificatione detentus per alteram ad cor redire possit.*

FF. *Superior Testiculi pars, cui venæ præparantis rami frequentes in dorso implantantur.*

GG. *Ramificationes venarum præparantium ad latera testiculorum per tunicam albugineam repentes.*

H. *Corpus Testiculi.*

I. *Globus Epididymidis major superiori Testiculi parti firmiter annexus.*

K. *Epididymidis pars media Testiculo leviter adhærens.*

L. *Globus Epididymidis minor inferiori testiculi parti firmiter annexus.*

M. *Vas semen deferens in medio fere abscissum.*

FIGURA II.

A. *Vasis deferentis semen portio & in ea cavitas conspicua.*

B. *Serpentinus flexus circa finem Epididymidis ex parte solutus.*

C. *Ultima Epididymidis solutio.*

D. *Serpentinus flexus circa medium Epididymidis solutus.*

E. *Ejus partis ulterior solutio.*

F. *Altera pars circa medium Epididymidis ex parte soluta.*

G. *Ejusdem partis ultima solutio.*

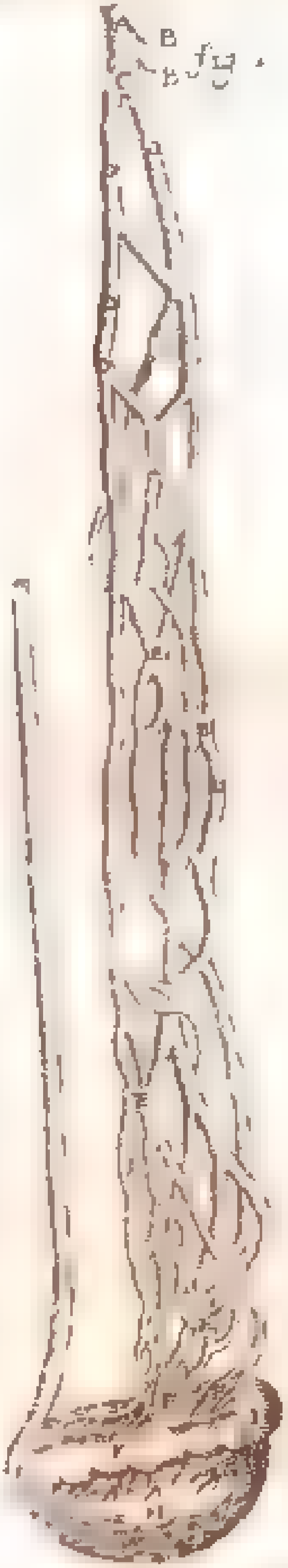
H. *Globus major seu principium Epididymidis, prope quod vas illud in plures ramos dividitur.*

I. *Venter Testiculi.*

K. *Arteria præparans, quæ ab inferiori testiculi parte per ejus ventrem ascendit.*

L. *Venarum præparantium ramificationes.*

B
D
E
G


A
B

[illegible] & [illegible] pale- [illegible] ordine & figura eleganter æmulantur.

[illegible] *Rondeletius* [illegible] *Riolanus* [illegible] *Vesalius* [illegible] *Vesalius* [illegible] *Whartonus* [illegible] *Rondeletius* [illegible] & post [illegible] *Laurentius* [illegible] valorem [illegible] hanc [illegible] per *foramenula*, [illegible] velut ex corio [illegible] (a Dextra [illegible] loco, [illegible] infert notat *Graafius* ex syringula sua.

[illegible] servare ad [illegible] *Tubercula* per [illegible] *Aristotelem*, & *Columbus* [illegible] conservati, & per [illegible] nec tamen uno cotu totum effundi.

Taurus an post ex ectomiam testis generare potuerit?

Whartono [illegible] *Rogerius* novam [illegible] *Deusingius* [illegible] Sed [illegible] [illegible] testibus [illegible]

alij.

[illegible] *[illegible]chio* [illegible] & pell[illegible] [illegible] *Riolanus* [illegible] *Bauhin*[illegible] & *Higmo*[illegible] [illegible]

[illegible] vesicalis; [illegible] *Fallopius*, [illegible] *Laurentius*, *Aquapendens* [illegible] *Casserius* [illegible] compertum, nihil tamen esse absque vene[illegible] sione. Quod autem perpetuo ex [illegible] semen non exstillet, caruncula [illegible] manifesto pro[illegible] *Riolanus* [illegible] hoc inficit.

An in vesiculis conti-neatur semen? Aque-pendentis com-mentum

[illegible] prostatarum.

[illegible] *Hofmannus* [illegible] *Columbus* [illegible] *Fallopius* glandulam [illegible] ad sacra tormenta.

Magnitudo [illegible] juglandis est, [illegible]

[illegible] habeant, [illegible] & alle[illegible] [illegible] volutas excitatur. Patent hæ glandulæ poris [illegible]

 bulbam

FIGURARUM EXPLICATIO

Exhibet Vasorum deferentium cum Vesiculis seminalibus communionem prout in corpore humano naturaliter occurrit, ex *R. de Graaf.*

FIGURA I.

AA. *Vasorum semen deferentium pars, crassa substantia & exigua cavitate donata.*

BB. *Vasorum deferentium pars tenui substantia & magna cavitate cellularum ad instar dilatata.*

CC. *Vasorum deferentium extremitates rursus coarctatae & exiguo foramine in vesicularum seminalium collum hiantes.*

DD. *Vesicularum seminariarum collum membrana quadam intermedia in duas partes divisum, ita ut unius lateris semen, cum semine alterius lateris confundi non possit antequam ad Urethram pervenerit.*

EE. *Vesiculae seminariae flatu distentae, ut mirabiles earum dilatationes & coarctationes conspiciantur.*

FF. *Vasa ad vesiculas seminarias tendentia.*

GGG. *Membrana quibus vesiculae seminariae & vasa deferentia in suo situ detinentur.*

HH. *Vasa sanguinea ad latera vasorum deferentium excurrentia, eaque suis ramificationibus amplectentia.*

I. *Caruncula caput gallinacei repraesentans per cujus quasi oculos semen in Urethram erumpit.*

KK. *Ductus corporis glandosi in Urethram ad latera carunculae hiantes.*

LL. *Corpus glandosum in anteriori parte divisum.*

MM. *Urethra aperta.*

FIGURA II.

Omnes hae literae quemadmodum in priori externam, sic in hac internam vesicularum seminalium substantiam exhibent.

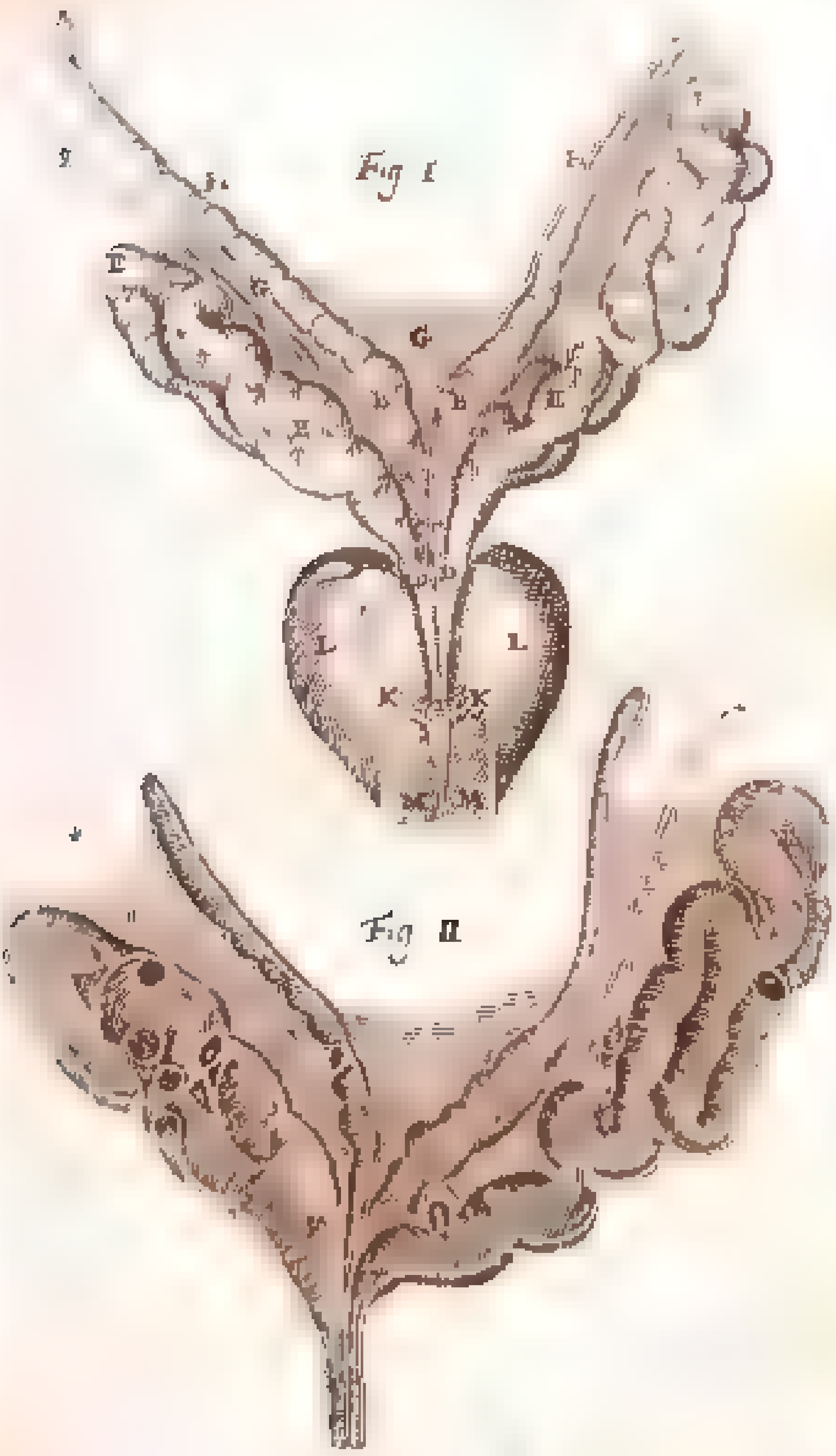


Fig I
G
E
L L
K K
M M
Fig II

[illegible] in [illegible], [illegible] G[illegible] G[illegible] [illegible] [illegible] *Ligamenta* [illegible] [illegible] *Riolanus* [illegible] in homine *Graafius* non invenit.

Meatus novus. *Meatum* [illegible] [illegible] *Graafius*, [illegible] non [illegible] ductus.

[illegible] est contra acrem humorem [illegible] & [illegible] meatus [illegible] menta seminis vel urinæ, & ne exsiccatus [illegible] lubricus maneat, quando [illegible] per [illegible] & [illegible] O[illegible] jus humoris defectum [illegible] *Riolanus* [illegible] [illegible] & [illegible] per syringam injecto in Urethram.

H[illegible] *Galenus* [illegible] [illegible] morem [illegible] spermatis [illegible] [illegible] [illegible] *Plazzonus* [illegible] [illegible] tus contra vel disruptionem vel compressionem à Vesicæ [illegible] in valido [illegible] ex[illegible] [illegible] prostat[illegible] observavit *Riolanus* & a calculo [illegible] *Rhodius* [illegible]

An prostata, [illegible] necessariæ. In [illegible] *Spigelius*, *Riolanus* [illegible] [illegible] & [illegible] [illegible] *Bauhinus* A[illegible] *Laurentius*, [illegible] [illegible] & [illegible] [illegible] [illegible]

Sedes Gonorrhææ. [illegible]

[illegible] Gonorr[illegible] [illegible]

[illegible] continetur [illegible].

[illegible] *Præstant nec faciunt ad seminis generationem.* [illegible] ut de [illegible] [illegible] alter testiculus fuerat [illegible] [illegible] *Rivetus.*

[illegible] *An materia seminis triplex?* [illegible] oleagi- [illegible] prostatarum ab [illegible] & vesicularum, tertiam vero seminalem, quæ [illegible] generatur, [illegible] esse, [illegible] & viscidam, cum testiculorum [illegible] [illegible] generatio- [illegible] ne, si à lithotomis lacerentur, [illegible] prostatarum. [illegible] & [illegible] vocatur. [illegible] Hanc [illegible] prostatarum & [illegible], quia [illegible] perfecto [illegible] tralatur & vehiculum.

CAP. XXIV.

DE PENE.

M*Embrum* [illegible] *Pene* [illegible], *Colis*, &c. [illegible] quæ [illegible] præstat, quam [illegible] operosus est *Rolfincius* post *Bauhinum.*

FIGURARUM EXPLICATIO.

Penis partes omnes repræsentantur, ex *Casserio*

FIGURA I.

A A. *Urethræ dissectæ interior superficies.*
B. *Pars urethræ quæ glandem perforat.*
C C. *Glans.*
D D. *Duo penis corpora nervosa.*

FIGURA II.

A. *Corporis nervosi membrana separata.*
B. *Medulla ejusdem corporis nigricans.*
C. *Glans nuda.*

FIGURA III.

A A A. *Interna pars nervosi corporis à quo omnis spongiosa substantia detracta est*
B. *Nervus hoc ipsum corpus ingrediens.*
C C,C. *Arteria ejusdem corporis*
D D. *Septum pellucidum, Spigelio dictum.*

FIGURA IV.

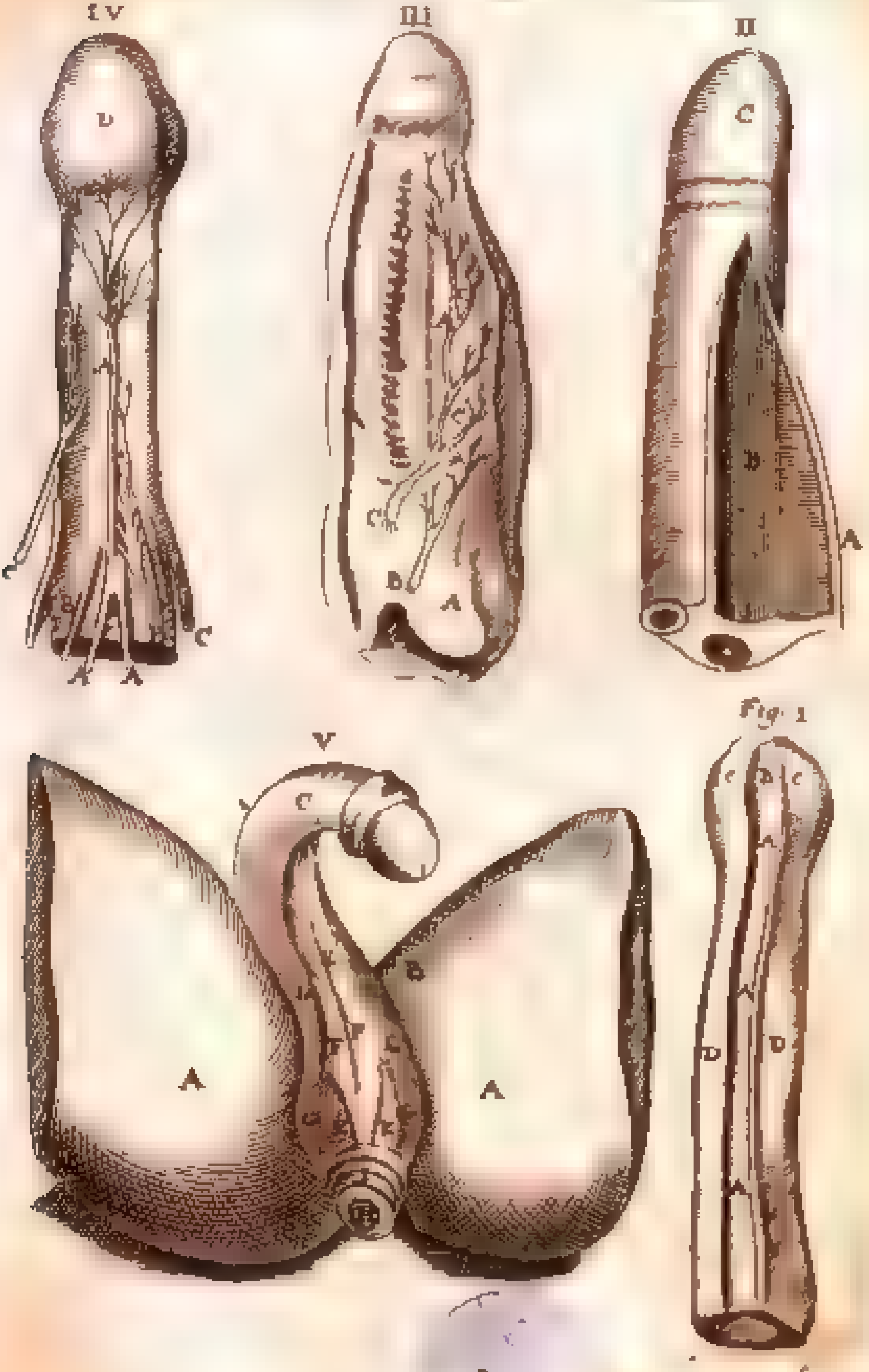
A A A. *Venæ per dorsum penis excurrentes.*
B B. *Arteria.*
C C. *Nervi penis.*
D. *Glans.*

FIGURA V.

Penis musculos in situ ostendit.

A A. *Partes circa nates.*
B. *Pubis regio.*
C. *Penis cute nudatus.*
D D. *Duo nervosa corpora.*
E. *Urethra.*
F F. *Duo musculi urethram dilatantes.*
G G. *Duo musculi penem erigentes.*
a a. *Principium eorum abscissum ab osse coxendicis.*
H. *Anus.*
I. *Sphincter ani.*
K K. *Duo musculi rectum intestinum sursum trahentes.*

TABULA XI.



num Plat[illegible] in [illegible] animali [illegible] [illegible] [illegible] in [illegible]. [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]

Situs. *Situs* [illegible] [illegible] [illegible] [illegible] gressus, & aliis partibus [illegible] [illegible] medio positus, [illegible] *Numero* [illegible]. [illegible] quando Bononiæ dissectus [illegible] [illegible] & in p[illegible] [illegible] *Osséquens* A[illegible] [illegible] in L[illegible] [illegible] carens eo plane caruit: ejusque loco [illegible] [illegible] sub [illegible] [illegible] natura gestavit.

Figura. *Figura* [illegible] [illegible], [illegible] pen[illegible] parte quam [illegible] penis vocatur [illegible].

Magnitudo. *Magnitudo*, [illegible] & [illegible] [illegible] tam in [illegible] *in spec*[illegible] est, quanta ad procreandum sobolem [illegible] [illegible] proportione vero brevior, quam in multis brutis, ob [illegible] cong[illegible] in penem [illegible] [illegible]. *In individuis* maxima est varietas [illegible] est [illegible] [illegible] [illegible] si *Galenus* credimus [illegible] ad umbilicum [illegible] [illegible] & [illegible] [illegible] *Spigelius*. [illegible] [illegible] proportio [illegible] [illegible] & [illegible] [illegible] nationibus magnitu[illegible] [illegible] Æthiopibus.

Penis cur pinguedine careat. Opinio I. Laurentii error. Constat cute [illegible] [illegible] [illegible], & [illegible] substantia. *Pinguedine* caret etiam in [illegible] hominibus. Causa vero [illegible] in eo, neque [illegible] [illegible] tur, [illegible]. Aliqui *Laurentius*, putant causam esse, quod pinguedo [illegible] [illegible] [illegible]. Atqui [illegible] corpora [illegible] [illegible] [illegible]. [illegible] causam dant, ne pondere [illegible], & ne penis in [illegible] [illegible] excresceret. At si pinguedo [illegible] non [illegible] neque penem [illegible] [illegible]. [illegible] ergo causa est, [illegible] [illegible] [illegible], & [illegible] [illegible] per [illegible] [illegible].

Substantia propria non est [illegible] [illegible] ca[illegible] [illegible], [illegible] & [illegible] & pro-

Penis partes 4. pria [illegible] nulla est [illegible] [illegible] parte co[illegible]. Quatuor autem sunt propriæ penis partes, Urethra, glans & [illegible] corpora nervosa.

Urethra. URETHRA seu *fistula urinaria* est canalis nervosus [illegible]

[illegible]

[illegible] vel [illegible] cervice, cui continua [illegible] nec cum ea continuatur, [illegible] ad exteriorem partem [illegible] corporibus [illegible] enim superfi[illegible] cavernulam [illegible] humore ero[illegible] gonorrhœa vel aliud [illegible] ulcus & lo[illegible]. [illegible] dilatatur in calculosis [illegible] *Alpinus* adeo dilatatam in Ægypto vidit, ut magnam avellanam [illegible]mitteret. Hac inflari & facile calculum extrahi.

In hujus principio *pori* [illegible] sunt per quos ante diximus [illegible] adest quoque *membranula* seu caruncu[illegible] [illegible] & [illegible] ad vasa [illegible]matica refluant. Eroditur hæc ab humoribus [illegible] [illegible] gonorrhœa perpetua. Observante [illegible] posteriori ætate [illegible] major [illegible] est necessitas, [illegible].

[illegible] corpora [illegible] & [illegible] [illegible] & una cum [illegible] [illegible] exporrigitur, designans hac ratione figuram literæ S.

Duplicem autem *membranam* & *substantiam* [illegible] [illegible] *propriam* [illegible].

[illegible] est [illegible] & [illegible] ut [illegible] [illegible] penis nervos [illegible] & [illegible] & [illegible] est [illegible] nervosis distendi queat.

[illegible] & [illegible] *Aristotele* [illegible] & adest [illegible].

Glans [illegible] penis est pars extima [illegible], [illegible] coronæ modo circulo cincta. Glans.

Carnem [illegible] & [illegible], quam [illegible] [illegible].

Mo[illegible] & [illegible] acu[illegible] [illegible].

[illegible] *præputium* [illegible] & [illegible] [illegible] *Job* [illegible] excrescere [illegible]

FIGURÆ EXPLICATIO

Exhibet partes genitales simul collectas [illegible] à parte anteriore sese repræsentant ex *R. de Graaf.*

A. *Vesicæ urinariæ pars anterior.*
B. *Collum Vesicæ urinariæ.*
CC. *Ureterum portiones.*
DD. *Vasorum semen deferentium portiones.*
EE. *Vasa ad vesiculas seminarias excurrentia.*
FF. *Vesiculæ seminariæ.*
GG. *Prostatarum sive Corporis glandosi pars anterior.*
H. *Urethræ spongiosæ sive pars adjacens.*
II. *Urethræ pars spongiosa.*
KK. *Musculi penem erigentes vel excondentes dicti.*
LL. *Corporum nervosorum principia, ab ossibus pubis separata, quæ folliculorum adinstar dum penis inflatur protuberant.*
MM. *Penis cutis ad latera diducta.*
NN. *Cutis duplicatura præputium constituens.*
OO. *Cutis quæ retro glandem annexa fuit.*
PP. *Penis dorsum.*
Q. *Glans penis.*
R. *Meatus urinarius quo Glans in anteriori parte perforatur.*
SS. *Nervi supra dorsum Penis excurrentes.*
TT. *Arteriæ supra dorsum Penis excurrentes.*
V. *Corpora nervosa simul concurrentia.*
WW. *Venæ duæ quæ simul coeunt & uno ramo insigni per Penis dorsum excurrunt.*
X. *Vena aperta ut valvulæ in ea conspiciantur.*

car noster & magnum [illegible] observavit [illegible] [illegible] Stephanus ex [illegible] cum penis & nervi complexa.

Corpora nervosa. DUO CORPORA NERVOSA [illegible] & [illegible] penis constituunt [illegible] substantia tota est [illegible] arteria, spongiosa [illegible] instar.

Duplica-

TABULA XI.

FIGURARUM EXPLICATIO

Ex R. de Graaf.

FIGURA I.

Exhibet Membrum virile a superiori parte, usque ad [illegible] per medium divisum.

AA. *Glans Penis cum ipsis Corporibus nervosis per medium divisa.*
BB. *Corpora nervosa [illegible]*
CC. *Arteriæ per spongiosam Corporis nervosi [illegible]*
DD. *Membranæ ex quibus spongiosa Penis substantia, per quam arteriæ ramificationes excurrunt.*
EE. *Septum intermedium.*
F. *Vena, à Septi parte media propagines producens [illegible] ascendunt.*
G. *Urethra [illegible] Corporis glandulosi [illegible]*
H. *Urethra medium.*
I. *Urethra finis Glandem perforans.*
KK. *Urethræ substantia spongiosa.*
LL. *Corporum nervosorum principia, folliculorum adinstar dilatata.*
MM. *Musculi Penem erigentes, seu Erectores dicti.*

FIGURA II.

Exhibet Membrum virile ad latus [illegible] apertum.

AA. *Glans nuda.*
B. *Frenum.*
CC. *Portiuncula cutis à qua reliqua pars, Penem tegens, separata est.*
DD. *Urethra Corporibus nervosis subjacens.*
EE. *Corpora nervosa Penis [illegible] divisa.*
FF. *Arteria per corporis nervosi substantiam spongiosam excurrens.*
GG. *Corporum nervosorum substantia spongiosa.*
HH. *Arteriarum abscissarū orificia in Corporibus nervosis conspicua.*
I. *Urethra.*
K. *Spongiosa Urethræ substantia.*
LL. *Septum intermedium Corporum nervosorum.*

FIGURA III.

Exhibet Membrum virile [illegible] transversim divisum.

AA. *Spongiosa sive fibrosa Corporum nervosorum substantia.*
BB. *Arteriæ duæ Corpora nervosa perambulantes.*
C. *Urethræ meatus urinarius.*
D. *Urethræ substantia spongiosa.*
E. *Septum intermedium.*
FF. *Membrana Corporum nervosorum validissima.*
G. *Membrana tenuissima Urethræ substantiam spongiosam continens.*
H. *Vena insignis per penis dorsum repens.*

TABULA XVII.

Fig. I

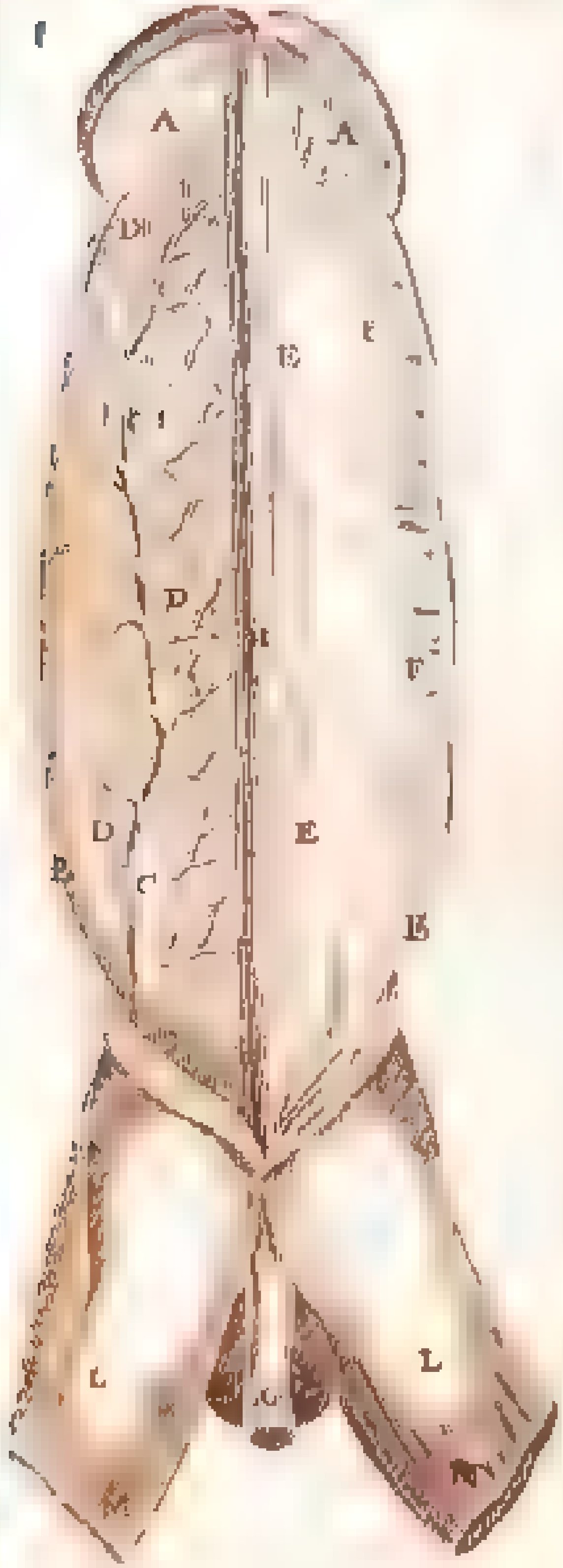


fig. III.

Du[illegible] [illegible] externor, quæ densa, [illegible] fungosa, rara & cavernosa, [illegible]

[illegible] [illegible] bren suum motu.

[illegible]

[illegible] pellucidi, nervosi & [illegible]

[illegible] omnis [illegible] *[illegible]* & *arteria.* [illegible] *interna* & per corpus [illegible] penem quidam putant. *Arteria* internæ [illegible] ab hypogastrica ortæ, quæ [illegible] corporum, & secundum longit[illegible] tur. In medio autem, ubi septum [illegible] bratum ramulos hinc inde mittun[illegible] strum corpus, & sinistra in dextrum, spiritum & sanguinem vehente. [illegible] ascendunt, inde[illegible] & grandem disseminantur, [illegible] ex cerebri [illegible] causa, sanguinem maxime [illegible] putat *Graafius*, qui delineatur [illegible] oribus.

Muscul[illegible] [illegible]

& carnosum fertur ad penis corpora, in quæ non procul ab exortu inseritur. *Usus* est penem erigere & sustinere in congressu.

[illegible] repetita sunt, ut seminis exitus cohibeatur. Com[illegible] [illegible]
At quæ in his [illegible] locus est, ubi calculos ex[illegible] [illegible]ter Chirurgi, secundum illorum longitudinem, [illegible] [illegible] Marianus Sanctus, [illegible] [illegible] modum *Aquapendens* describit & approbat.

[illegible] *Aquapendens* [illegible] [illegible]

[illegible] petit ac seminantis.

[illegible] *Coitus.*

[illegible] *Concep-tus.*

[illegible] aliquando observavit.

[illegible] *de flat. &. Pano* [illegible] [illegible]

CAP. XXV.

DE PARTIBUS MULIEBRIBUS

G[illegible] [illegible]tibus & primo de vasis spermaticis præparantibus.

P[illegible]

Neque [illegible] appellantur.

[illegible] partes non tantum situ à virilibus [illegible]

[illegible]

Vasa Spermatica [illegible]

[illegible] à testibus [illegible]

[illegible]

[illegible] anastomoses junguntur. De quibus videatur *Zerbus, Fallopius, Placentinus* [illegible] *Riolanus* [illegible] in *Descriptione Vesl. Lumph.* [illegible] *Besserus* [illegible] Hanc ob causam [illegible] sunt.

[illegible] *Pandorus* [illegible] observavit *Rolfincius* [illegible] in latere sinistro, a trunco [illegible] prope testes [illegible] & [illegible] Adeunt etiam [illegible] *Zanthez* [illegible] dem induratas narrat.

CAP. XXVI.

DE TESTIBUS FOEMINEIS

TESTES vero MULIEBRES, licet usu conveniant ex parte cum virilibus, [illegible] tamen, quoad [illegible] [illegible]

Situ, [illegible] [illegible] post annum [illegible] contrahuntur, antea albo succo [illegible] ditenti, & molles.

Quomodo testes muliebres differant à virilibus.

Cur testes muliebres in ... sint?

3. *Superficies* ext [illegible]

4. *Figura* quæ [illegible]

[illegible]

6. *Temperamento* [illegible]

[illegible] aquoso lacti persimile.

[illegible]

[illegible] vocatur in hysterica [illegible]

[illegible] ne *Lymphati-* [illegible] *Vasa Lym-phatica.*

[illegible] *Bartholinus*, & [illegible] *Rhodius*, [illegible] *Zassius*, [illegible] *Morbis Lymphaticis.*

[illegible] *Arteriæ venosæ.*

[illegible]

Vsus est elaborare semen [illegible] contra omnem rationem & experientiã mulieribus [illegible] contra experientiam *Hippocratis* doctrinã *de genitura*, ubi semen [illegible]

[illegible]

 semen

FIGURÆ EXPLICATIO.

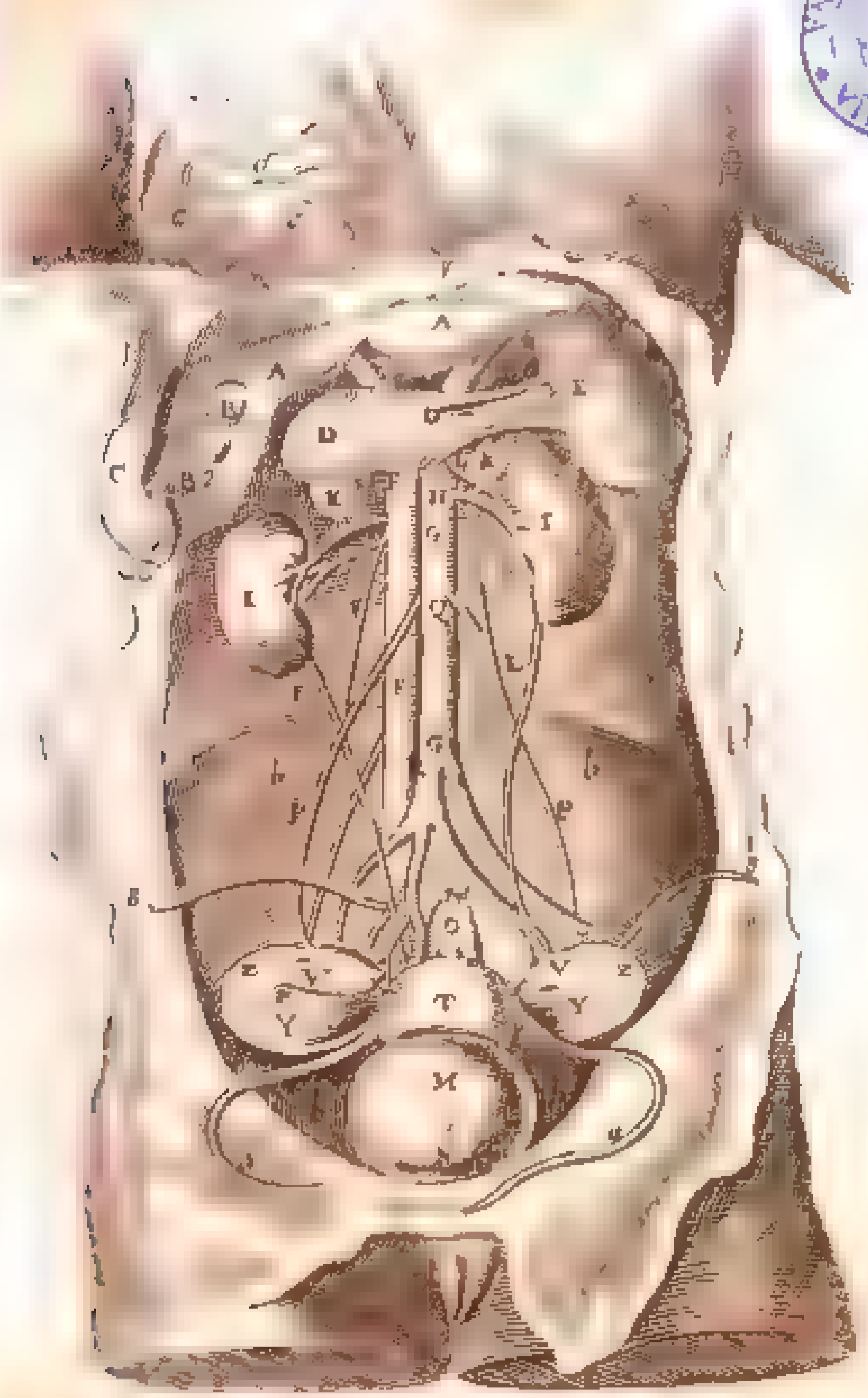
[illegible] & Mammæ internæ [illegible] eadem Tabella.

AA. *Hepar in suo situ.*
B [illegible] *cum* [illegible]
C. *Intestini duodeni portio.*
[illegible] *Pancreas* [illegible] *quo* [illegible]
E. *Lienis corpus*
FF. [illegible]
G. *Arteria magna truncus* [illegible] *visus.*
HH. *Emulgentia vasa.*
II. *Renes veri.*
KK. *Renes succenturiati*
LL. *Ureteres ad* [illegible] *descendentes.*
M. *Vesicæ urinariæ fundus*
[illegible] *Urachi in funiculum ejus insertio.*
O. *Intestini recti portio*
PP. [illegible]
QQ. *Arteriarum præparantium è trunco exortus*
R. *Locus* [illegible] *venam supergreditur.*
SS. *Arteriarum umbilicalium portiones.*
T. *V*[illegible] *funiculi*
VV. [illegible]
XX. [illegible] *ad uterum* [illegible]
ZZ. [illegible]
Y. [illegible]
aa. [illegible] *rotunda,* [illegible]
bb. [illegible] *quæ in* [illegible] *est.*

M[illegible] characterum explicatio.

[illegible]
[illegible]
[illegible]

TABULA XLIII.



[illegible] ...tis colligunt mate... [illegible] ...is subventaneis, &c. quanquam [illegible]

[illegible] ...ex parte omnibus uteri cornua [illegible] ...a folia cō... [illegible] ...las meēnte... [illegible]

[illegible] ...centis neque materialis caus[a] vices co... [illegible] ...oltiua fluere incipiunt, so[r]orant ... [illegible]

[illegible] concurrere, vix dubitandum. Sed modus [illegible]
[illegible]

CAP. XXVII.

De VASIS DEFERENTIBUS, imprimis TUBA UTERI.

De [illegible] tradi[illegible] est [illegible] tradita hactenus ab Anatomicis, partim opinionum varietate, partim rei ipsius obscuritate, quam tamen reducere conabor, & quantum fieri potest, [illegible]tate.

Vasa [illegible] vel [illegible] significat [illegible] & [illegible] *genere.* [illegible] & [illegible] referunt. De utrisque nos breviter & distincte.

Vasa deferentia [illegible] testibus [illegible] con[illegible] prox[illegible] At Zer[illegible] sed [illegible] cervicem [illegible] brevior, sed [illegible] & [illegible] *Varol* [illegible] partes [illegible] utraque [illegible] exiguum [illegible] gravidis [illegible] amplissimam, *Spigel*[illegible] pro lata [illegible] habet [illegible] & [illegible] parere. [illegible] quidem ad uteri cervicem [illegible] [illegible] recto [illegible] a praeparantibus veniunt, [illegible]

[illegible]

TABULÆ EXPLICATIO.

Genitalia Mulieris partes anteriores [illegible]

AA. *Renes muliebres extra corpus separati.*
BB. *Capsulæ Atrabilariæ sursum erectæ.*
cc. *Cavitas in capsula atrabilaria dextra.*
dd. *Vena ex cavæ trunco ad capsulam dextram, & ex Emulgente sinistra ad sinistram derivata.*
ee. *Arteriæ ad capsulas deductæ ex trunco arteriæ magnæ.*
FF. *Vena cava truncus descendens.*
GG. *Arteria magna descendens.*
HH. *Emulgens vena utrinque ad renes producta.*
IIII. *Ureteres utrinque ex renibus ad vesicam descendentes.*
K. *Vena spermatica sinistra ex emulgente.*
L. *Arteria spermatica sinistra à trunco arteriæ descendentis.*
m. *Vena & Arteria spermatica conjuncta per membranam involventem.*
n. *Testiculus sinister membrana sua adhuc involutus.*
o. *Vesica urinaria deorsum reflexa.*
P. *Uterus muliebris.*
Q. *Vagina uteri.*
R. *Pudendum muliebre externum.*
SS. *Ligamenta uteri rotunda.*
t. *Clitoridis vestigium.*
u. *Ligamentum latum membraneum testiculos involvens.*
xx, xx. *Tuba uteri.*
y. *Testiculus dexter à membrana lata separatus.*
zzzz. *Arteria & Vena spermatica dextra variis anastomosibus hinc inde cohærentes, circa testiculum vero à membranis separatæ.*

gumenti vel cum eo chylum potius quam semen deducentes, de quibus Anatomici alii videantur, imprimis *Plazzonus, Riolanus,* & *Bartholinus* Pater.

Usus horum vasorum est, materiam seminalem partim ad cornua uteri perferre, ut ibi ulterius perficiatur & ad futuros usus reservetur, partim ad uteri fundum. [illegible]

Vas deferens, quod antequam [illegible] semen [illegible] *tuba uteri* a *Fallopio* [illegible] Meatus [illegible] admodum [illegible] nervosus ac

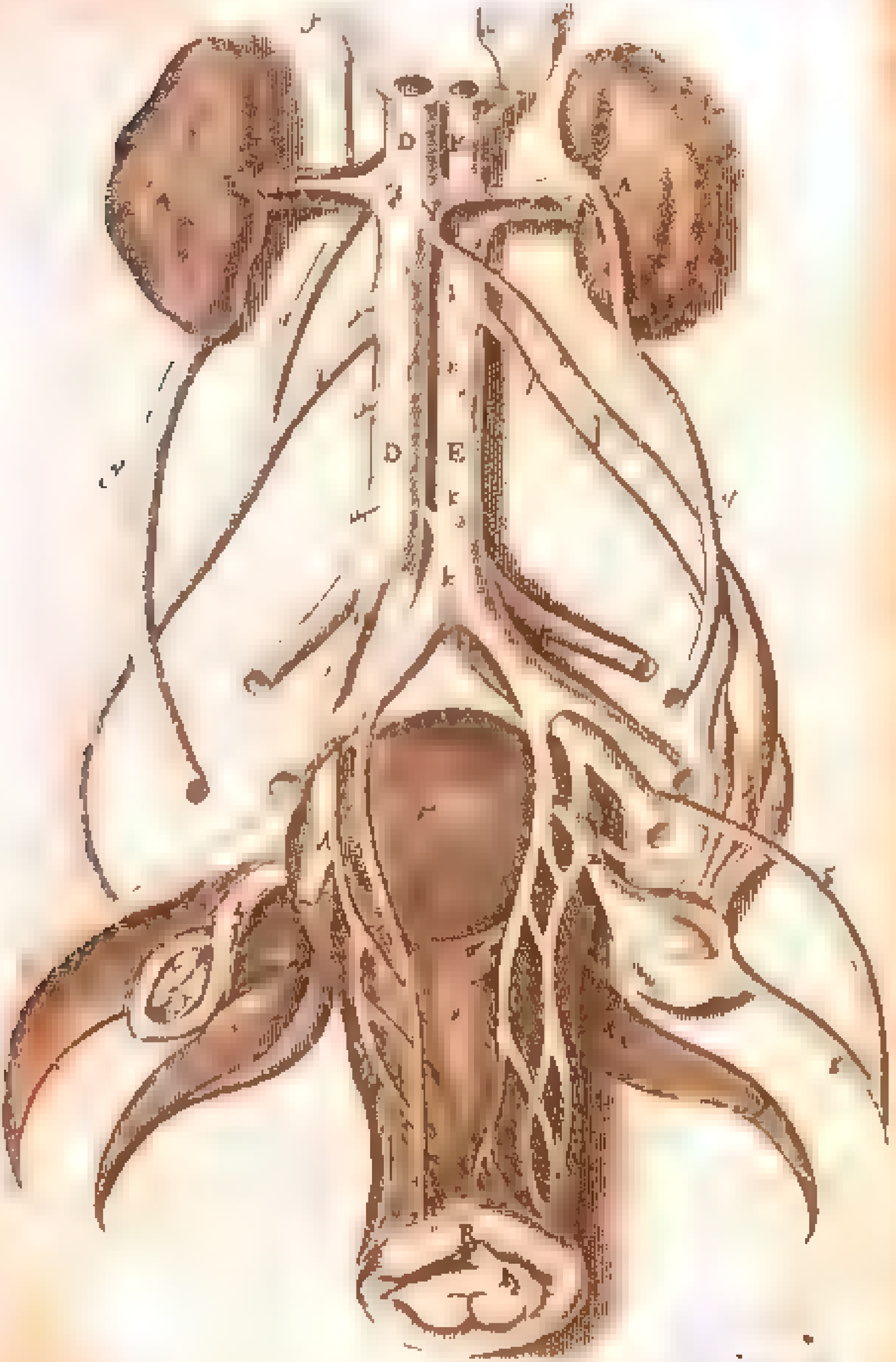
canali

B
B
A
A
F
H
H
E
G
L
P
O
R

TABULÆ EXPLICATIO

Hæc figura Genitalia Mulieris [illegible] ostendit, sive partem posticam.

AA. Renes qua dorsum respiciunt.
bb. Emulgentes arteria.
cc. Vena Emulgentes.
DD. Arteria Magna truncus descendens.
EE. Vena cava truncus descendens.
ff. Capsula Atrabilaria in quorum cavitate [illegible]
gg. Ureteres utrinque discissi.
h. Vena ad capsulam [illegible]
iiii. Arteriarum Lumbarium exortus.
kkkk. Venarum Lumbarium ortus.
l. Arteria spermatica sinistra ex trunco enata.
m. Vena spermatica sinistra ab emulgente.
n. Arteria & vena spermatica conjunctio per membranam.
o. Arteria spermatica dextra ex trunco.
p. Vena spermatica dextra ex trunco.
q. Anastomosis [illegible] vasa spermatica.
rr. [illegible] vasa præparantia [illegible] testiculum partim ad tubam uteri, partim ad [illegible] diffunduntur.
ssss. Tuba uteri in sinistro cum sua membrana cohærens, in dextro vero ab illa separata.
tt. Testiculus dexter per medium dissectus, ut vascula & vesicula appareant.
uu. Vesicula duæ in testiculo conspectiores, humore [illegible] splendido.
x. Vesicula minores.
yy. Testiculus sinister integer sed separata tunica, in quo substantia [illegible] glandulosa & vesicula hinc inde videntur transparentes.
zz. Vas deferens, sive cornu uteri, ex testiculo ad uterum materiam seminalem perducens.
αα. Ligamentum uteri latum.
β. Uteri pars postica.
γ. Collum uteri seu vagina [illegible] latus.
δδ. Vena iliaca bifurcationes, ex quarum interiori ramo ad cervicem uteri propagantur ramuli [illegible].
εεεε. Ramuli venarum per vaginam dispersi, cum arteriolis per anastomoses coeuntes.
ζζ. Arteria iliaca ramus.
ηηηη. Ramuli arteriarum per vaginam dispersi.


D
D
E
B

[illegible]

Numero duæ sunt, utrinque una.

[illegible]

Substantia [illegible]

Figura teres & cava. [illegible]

[illegible] ctum consideramus. Inferno seu *principium* ad uteri fun- [illegible] capax cellulas aliquot ost[illegible]

semen

[illegible] dum servantes. *Firm* ang[illegible] [illegible] tamen retineat. Ante [illegible] tanquam capreo- [illegible] [illegible] rubis ita implicatos, ut vel in fine [illegible] unam massæ carneæ videretur.

[illegible] pe coeant, & semen emittant, esse possunt [illegible] [illegible] cum ita possint, quæ annexi testibus sunt [illegible] etiam ab ipsis semen, & in se recondant ad usus fut[illegible] emittantque quando res postulat. In puerpera ductu d[illegible] [illegible]

[illegible] satis scio. Confirmatur tamen a *Vesalio* [illegible] bus majoribus immisso stilo ab utero [illegible] [illegible] ctu perficere mora [illegible] in capreolis & cellulis, testium [illegible] fœtum formandum sic accommodatas, denique altero [illegible] uterum, præsertim in congressu, per [illegible] in uteri cavitate, sive cervice occurrat ad concer[illegible] [illegible]

 [illegible]

[illegible] [illegible] H[illegible] [illegible] [illegible] *R[illegible]*, [illegible] *H[illegible]*, quanquam [illegible] [illegible] [illegible] *K[illegible]* [illegible] [illegible] [illegible] publico narrant. Forsan [illegible] [illegible] [illegible] T[illegible] [illegible] *H[illegible]* [illegible] compa[illegible] [illegible] [illegible] *Lau. Horstium*, *H[illegible]* [illegible] [illegible] Tubas [illegible] [illegible] [illegible]. Q[illegible] [illegible] per *porillas* [illegible] [illegible] [illegible] [illegible] [illegible] *H[illegible]* [illegible].

CAP. XXVIII.

DE UTERO IN GENERE.

Etymon. UTerus ab Utre [illegible] [illegible] [illegible] *Isidorus* [illegible] [illegible] *Digestis* [illegible] *Matrix* [illegible] [illegible] *loci muliebres* [illegible] [illegible] [illegible] *Plinio vulva* [illegible] [illegible] [illegible] [illegible] *Pinta[illegible]* & *Langius* [illegible] *Ma[illegible]* [illegible] *H[illegible]*, *A[illegible]* *Athenaeus*, & [illegible] *Casaubonus* [illegible] *Helm[illegible]* [illegible] *Lucr[illegible]*, [illegible] [illegible] *Festo* [illegible] [illegible] [illegible] [illegible] & [illegible] [illegible] [illegible], & [illegible]

Cur in hyp[ogastrio] positus uterus. *Situs* [illegible] hypogastrium, [illegible] [illegible] cavitate, [illegible] [illegible] [illegible] [illegible] [illegible] & ampliores. Situs [illegible] [illegible] distendi uterus pro foetus magnitu[illegible] [illegible] ctiam excludi infans.

I[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] uteri [illegible] [illegible] [illegible] [illegible] [illegible], & [illegible] [illegible] [illegible] pulverant. Quid [illegible] [illegible] [illegible], [illegible] [illegible] & [illegible] naturam [illegible]?

Magnitudo [illegible] [illegible], [illegible], [illegible], & [illegible] variantque hæc omnia, pro ratione corporum, [illegible] & Veneris. *Magnitudo.*

Longitudo in iis, quæ mediæ staturæ sunt, & venere utuntur, a pudendo usque ad fundi finem communiter est undecim digitorum, fundi vero trium.

Latitudo fundi duorum aut trium digitorum, quia in non gravidis eadem est latitudo fundi & cervicis. Atque hinc amplitudo facile conjici poterit.

[illegible] [illegible], quæ non dum [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] tamen Venere [illegible], [illegible] & [illegible], satis parvus [illegible] est. At major in illis, quæ sæpe conceperunt, & uterum gestarunt [illegible] [illegible] [illegible] quis possit, nisi quando jam gravida [illegible] [illegible] [illegible] [illegible] [illegible] amplificatur, & cum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] & [illegible] [illegible], ut [illegible] [illegible] [illegible] [illegible] incumbat.

Crassitie, uteri [illegible] modo variat. Nam in virginibus [illegible] [illegible] [illegible] [illegible] [illegible] & pro tempore [illegible] [illegible] [illegible] crassior est uteri substantia. Menstruis [illegible] [illegible] [illegible], & [illegible] [illegible] [illegible] [illegible] [illegible] & [illegible] apparet uteri substantia. [illegible] [illegible] *Galenus*, *Vesalius*, atque Anatomici putant uterum, [illegible] [illegible], [illegible] [illegible] [illegible], crassitudine [illegible] [illegible] [illegible] [illegible] [illegible] *Galenus*. Sed [illegible] [illegible] [illegible] refragantur, & [illegible] [illegible], *Sylvius*, *Mundella* *Columbus*, *Chirurgi*, *Arantius*, *Varolius*, *Platerus*, *Bauhinus*, *Heurnius*, *Ioubertus*, & *Laurentius*. Nam a primo conceptu [illegible] [illegible] [illegible] [illegible] secundum omnes dimensiones, & [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] & mollior, [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] substantia. [illegible] [illegible] [illegible] [illegible] substantia [illegible], & rubra fit tumida & [illegible] [illegible] fit [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] divino [illegible] quod [illegible] [illegible] [illegible] [illegible] & [illegible] pro fœtu copiosum. De utraque opinione ita censet *A. Falcoburgius*, tenuiorem revera fieri [illegible] substantiam, ut in dissectis gravidis observavit: sed eam videri crassiorem, quod hepar uterinum illi arcte [illegible] [illegible], & hoc pluribus posuit imponere. *Nic. Fontanus* vero dicit in utero gravido se separasse hepar ut[illegible]

Error Galeni & Vesalii.

Crassitudo an accrescat utero?

 num

[illegible] utero non adhaerent. *Harveius* [illegible] humorem superfluumque [illegible] ter naturam redditur, sive humoris defectu, sive [illegible] ftensione, rumpitur de facili a fortioribus [illegible] substantia circa orificium internum, quod [illegible]

Uteri figura. [illegible] angustatur. Collum vero uteri [illegible] & rotundum repraesentat.

Cervix [illegible] per ligamenta peculiaria.

[illegible] recto cum al qua [illegible] coalescit. Ad latera per [illegible]

Ligamenta uteri. Fundus sua [illegible] *ligamentorum duo paria.*

Ligamenta uteri superiora. [illegible] pe cornua, Laxum & molle est, ut [illegible] *Archem* [illegible]

Fundi [illegible] [illegible] *Archem* [illegible]

[illegible] sceleorum, unde quidã musculos esse [illegible] Pineau [illegible] membranasve [illegible]

[illegible] hinc est, Roelans moneat, quod gravidæ primis [illegible] de femorum interiorum dolore c[illegible]

Usus hujus paris est 1. ut dictum, uteri fu[illegible] [illegible] aeri [illegible] & vagina sursum tra[illegible] [illegible] utero & distento sæpius contra[illegible] [illegible] *Hippocrates* [illegible] anno cœtu mortua, hæc [illegible] sem ne observavit. Unde [illegible] *Jo. van Horne* [illegible] aliud sunt quam minutissimæ arteriolæ, per[illegible] [illegible]

Substantia [illegible] *membranosa* est, [illegible] & [illegible] [illegible] plus [illegible] [illegible] [illegible] maxime manifestor. [illegible] [illegible] *membrana* communis & propria.

Membrana uteri. *Communis* duplex est, & [illegible] per [illegible] orta, crassissima & [illegible] ad [illegible] vasa [illegible] intrant aut [illegible]

Propria & interna etiam duplex est, [illegible] diffe[illegible] [illegible] & *παρέγχυμα*, [illegible] [illegible] de magnitudine dictum.

Vasa. *Vasa* uteri sunt Vasa lactea & lymphatica, venæ, arteriæ & nervi.

Vasa Lactea ad uterum. *Vasa lactea* [illegible] chyl[illegible] in *H*[illegible] [illegible] Monstrat *Hippocrates* [illegible] per os embryonis. Probavit [illegible] *Harveius*, [illegible] vis necdū perspectis. Sunt rationes quæ [illegible] [illegible] 1. In [illegible] [illegible] chy[illegible] & [illegible] [illegible] [illegible] in ipso [illegible] ventriculos [illegible] chyl[illegible] [illegible] [illegible] cum lacte [illegible] [illegible] Anato[illegible] ex *Aristotele* [illegible] [illegible] *Aquapendentem* [illegible] pulli in ovo & [illegible] [illegible] quæ in [illegible] chyl[illegible] [illegible] *Carrisius* [illegible] in collo [illegible] 4 [illegible] circa [illegible] [illegible] sunt [illegible] *Cæsareus* [illegible] & [illegible] 6. Infans in uteri cer[illegible] [illegible] & [illegible] [illegible] & [illegible] [illegible] [illegible] 7. Va[illegible] [illegible] [illegible] pectus [illegible]

[illegible]

[illegible] non [illegible] ex [illegible], sæpe vid. [illegible] ex utero [illegible] ob [illegible] Et [illegible] exempla [illegible] apud *Laurentium* [illegible] Medicamenta non [illegible] ad uterum [illegible] *Heurnius*. [illegible] *ab Heer* [illegible] *Schenckius* ex *Schenckio*. [illegible] cujus venter [illegible] concu [illegible] Alia peperit [illegible] habentem [illegible] mater [illegible] devoraverat. [illegible] *Bartholinus* [illegible] ovo [illegible] humore [illegible] interdum [illegible]

[illegible] scatent [illegible] *Harveyo*, & ex [illegible] *Conradus*. [illegible] *Needham* de- [illegible] Sed [illegible] per [illegible] Sed [illegible] *Deusingius*, [illegible] per *ligamenta* uteri [illegible] [illegible] totumque [illegible] & [illegible] *Lacteum* [illegible] per [illegible] cum *Eustachio* H[illegible] [illegible] bus labris fugit.

[illegible] *Cassebomius* & *Whartonus* [illegible] *Rudbeckius*, quæ [illegible]

[illegible] & *Arteria* [illegible] Quæ *interne* [illegible] vasa [illegible]

R 5 [illegible]

An [illegible] ex [illegible] *conjiciebus* *Arteria* *chylum*

An [illegible] mas [illegible]

Lym[illegible]

Vena & arteria.

ela constituantur: & quoque ab hæmorrhoid [illegible]

[illegible]

menstrui fluxus, cordis arteriarumque pulsus major [illegible]

per arter [illegible]

[illegible]

tas, vicinas venas pariter distendere, quod illis ab [illegible]

[illegible]

[illegible]

... suo foramen erumpit. 2 Quia in discessu [illegible]

[illegible]

[illegible] Hippocrate [illegible] Galenus, vasorum ad uterum [illegible]

[illegible] cum Segero, analogia sit concedamus, quam [illegible] seu acetabula habent cum osculis uterinorum [illegible]

[illegible] Needham, [illegible]

[illegible]

[illegible] & usus [illegible]

De Cotyledonibus [illegible]

Abusu [illegible]

Nervi.

Actio [illegible]

[illegible] semen [illegible] fun[illegible] [illegible] & [illegible], unde [illegible] [illegible] vel agit [illegible] [illegible] [illegible] *Arist.* [illegible] & [illegible] generationis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] *Fermentationem* [illegible] [illegible] & [illegible] mas [illegible] in [illegible] *fetum* [illegible] *generandum*, qui [illegible] ex ovo [illegible] [illegible] excl[illegible] [illegible], & [illegible] [illegible] paulo post conc[illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] habere [illegible] corporis parent[illegible] [illegible] fluxerunt, quamque in [illegible] [illegible] tio hujus vel illius [illegible] [illegible] [illegible], ex qua [illegible] [illegible] in utero [illegible] [illegible] [illegible] [illegible] & [illegible] [illegible] [illegible] [illegible].

[illegible] contaminationem [illegible] *Fab. Pa*[illegible] & *Harveus*, qui [illegible] negant, [illegible] N[illegible] [illegible] [illegible] vel [illegible] in fornacibus [illegible] Ag[illegible] [illegible], & Dan[illegible], & [illegible] [illegible] [illegible]. 2. [illegible] conformarentur [illegible] [illegible]. 3. Ad conformationem [illegible] [illegible] conferret. 4. Nulla dari posset causa similitudinis [illegible] tu modo cum patre modo cum matre.

A [illegible] [illegible] [illegible] excludunt *Cartes*[illegible], [illegible] *Regius* toto calore [illegible] & [illegible] [illegible] [illegible] agitari, has vero [illegible] ob suas [illegible] [illegible] [illegible] animal [illegible], eo modo quo ex [illegible] [illegible] in aqua vi caloris agitatis & [illegible] [illegible], primum lamella & ex ea [illegible] [illegible] [illegible]

tam

[illegible]

tum, quod nunquam fac[illegible] eorum affectæ. Nam formari [illegible] *An [illegible] utero [illegible] conceptio fieri possit.*

[illegible]

[illegible] *Marc.* [illegible] *Tom.* [illegible] *Lib. de Infid. Part.* [illegible]

Conceptus quomodo fiat.

[illegible] *Harvei* [illegible] *Everardus* [illegible] *speciem* [illegible]

In quo [illegible] *Everardus*, [illegible]

[illegible] & [illegible]

[illegible] *Harvei* [illegible] idea relicta, multa sunt quæ repugnant [illegible] quæ post conceptionem, varia molesta [illegible] gravidæ [illegible] conceptionem, [illegible]

[illegible] matris remanere & ad fœtum constituendum [illegible]

[illegible]

& cum sem[illegible] fœtum no conc[illegible]
suo mense non compareat [illegible]

[illegible]

teriale, nec solo ideæ contagio [illegible]

[illegible] materialis.

[illegible] anima sua & spiritu
con

FIGURARUM EXPLICATIO

U[illegible] pus positus cum annexis, [illegible] vasis spermaticis, & vesica urinaria proponitur ex Casserio.

FIGURA I.

A. *Vesica urinaria ad inferiora revoluta.*

B B. *Ureterum in vesicam insertio.*

C C. *Cervix uteri siue vagina, in quam plurima vasa disseminantur.*

D. *Uteri fundus.*

E E E E. *Duo inferiora & rotunda uteri ligamenta abscissa.*

F F. *Vas caecum, seu Tuba uteri, hoc loco ligamento superiori & lato adhuc annexum.*

G G. *Idem vas in opposito latere à ligamento lato separatum.*

H H. *Vasa deferentia utriusque lateris à testibus ad uteri fundum descendentia.*

I I. *Superius & membranosum uteri ligamentum, alis vespertilionum assimilatum, per quod complura vasa a praeparantibus orta disseminantur.*

K. *Vasa praeparantia unius lateris, nondum à ligamento membranoso liberata.*

L. *Vasa praeparantia alterius lateris, à ligamento membranoso liberata, ut totum in testem insertio conspiciatur.*

M M. *Testes, quorum dexter membrana sua tectus, sinister omnino nudus ostenditur.*

N N. *Venae & arteriae plurimae in cervicem & fundum uteri disseminatae, expurgationi menstruorum & nutritioni foetus inservientes.*

O O. *Nervi per uteri corpus disseminati, nimis magni exsculpti.*

FIGURA II.

A. *Uteri fundus.*

B B. *Inferiora & rotunda uteri ligamenta abscissa.*

C. *Regio, in qua est osculum uteri internum.*

D. *Testis dexter membrana sua adhuc vestitus.*

E E. *Vasa deferentia ad uteri cornua a testibus porrecta.*

F. *Superius & membranosum uteri ligamentum, vasa deferentia Testibus alligans.*

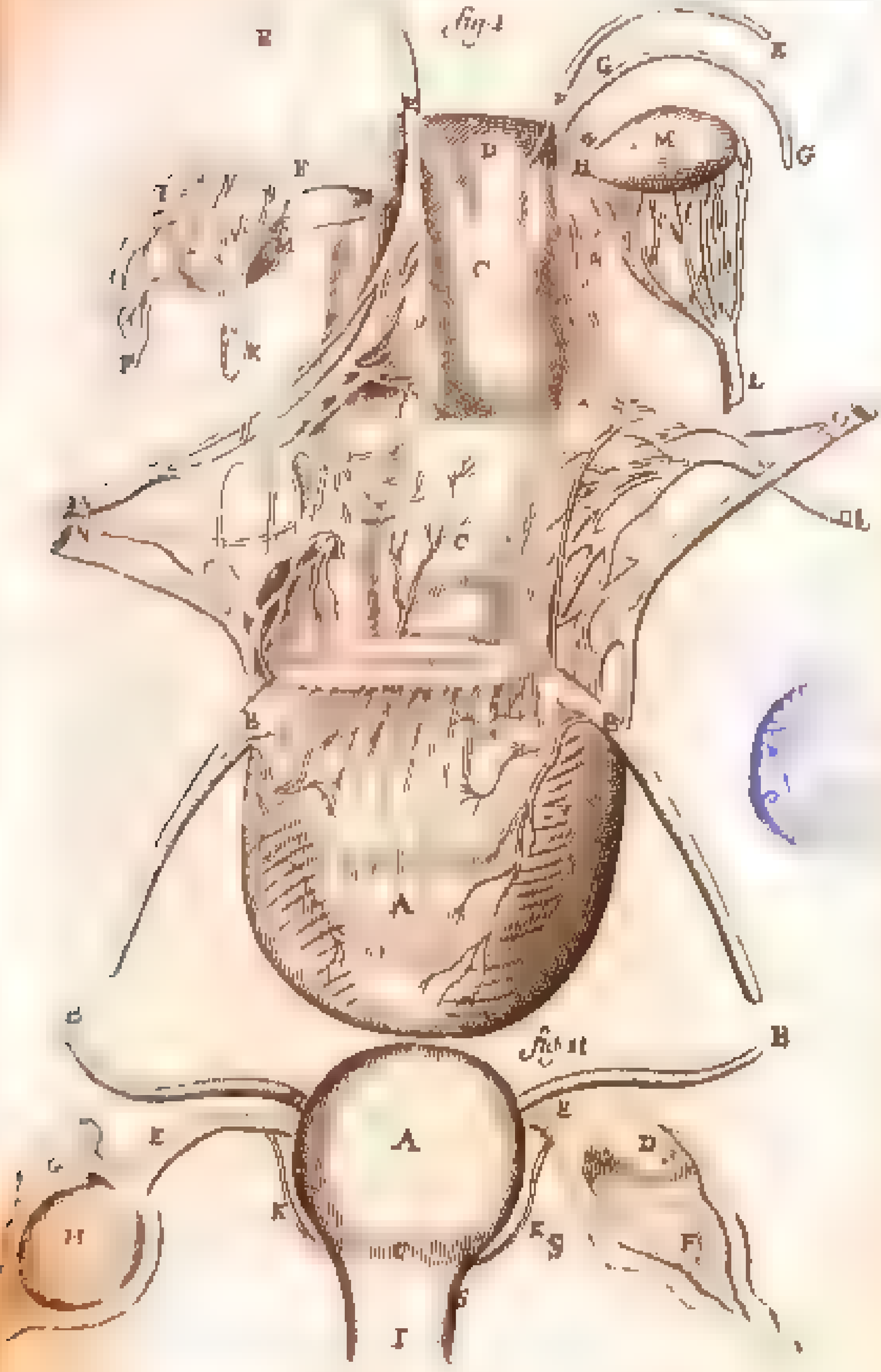
G. *Membrana Testis ab ipso separata.*

H. *Glandulosa Testis substantia.*

I. *Uteri collum sive cervix, vulgo vagina.*

K K. *Ductus ex vase deferente ortus, in cervicem uteri delatus, in quem gravidae semen ejaculari dicuntur.*

TABULA XLVI.



[illegible] tanquam inutilis huic negotio.

[illegible] *Iamu*, [illegible] colligi & sub visum cadere [illegible] mine citius. Veterum [illegible] *Barbatus* [illegible]

[illegible] ex naturalibus [illegible] minora esse symptomata [illegible] conceptu.

[illegible] quam totius corporis emunctio [illegible] xerunt plurimæ, etiam [illegible]

[illegible]

[illegible] in coitu & appetitu con- [illegible] nunc deorsum movetur, & [illegible]

[illegible]

[illegible] aversatur; illis gaudet.

[illegible] agma, cor, cerebrum, &c. unde uteri strangulatus [illegible]

[illegible]

[illegible] & [illegible] morte tumefactis, [illegible] [illegible] claro vagitu salvum & incolumem egressum [illegible]. Quomodo *Scipion*. & *Manlius* [illegible] *Eberus* duo [illegible] & *Ian Matthaus* [illegible] *Vivum clarum*, [illegible] [illegible] ad lumbos & divaricanda femora, [illegible] collocatur foetus quam exire possit.

CAP. XXIX.

DE UTERI FUNDO, & ORE

DE utero in genere hactenus egerimus, [illegible] partibus [illegible]. [illegible] *partes*, [illegible] eum diveḷimus: videlicet *Fundus*, *Collum* seu *cervix*, & *sinus pudoris*, [illegible].

Fundus [illegible] pars [illegible] [illegible] & [illegible] superiorem, [illegible] partem [illegible] [illegible].

[illegible] *Ampla transversa* est [illegible] & [illegible] [illegible] *collum* [illegible] & longo [illegible] collo, [illegible] [illegible] vel angustior [illegible], quam [illegible] est amplior [illegible] & [illegible] cervicem vocatam fuisse a veteribus, ut *Galeno*, *Sorano*, & [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] fecant.

[illegible] *Ampla & suprema pars* [illegible] *Fundus* [illegible]

[illegible] pars [illegible] & [illegible] quam reliquæ.

Situs est in pelvi [illegible] *Rhodanus* hoc in gravid[illegible] supra os sacrum.

In homine unicam cavitat[illegible] cellulis est donat[illegible] falso septem [illegible] In [illegible] unde *cornua* dicuntur [illegible] partes: licet cornuum [illegible] sed in vaccis, [illegible] imitationem [illegible] etiam hic homo utero Auct[illegible] protuberantia utrinque est aliqua, [illegible] alleguntur. Rar[illegible] vero [illegible] in [illegible] qualem in quibusdam [illegible] *Bauhini* *fratres*, *Sylvius*, *Riolanus*, & [illegible] Duplex uterum Parisiis observatum [illegible] larum, quæ geminos pluresq[illegible] ante anno *Hafniæ* plures fœminæ gemellos [illegible] *Bosternis*. Cujus Figuram hic addimus.

Cavitates in utero humano nulla. *Cur in humano utero dicatur esse cornua?*

An *gestatio g*[illegible] in prægnantibus [illegible] *Diss. de Infel. Part.* *Vos* disputavimus Nul-[illegible] Non *tumor* ab [illegible] *motuum* [illegible], quam non [illegible] ex [illegible] tantum observavi, ut gemellos [illegible] loci [illegible] *linea* [illegible] in uxore mea deprehendi: nec *pedum* [illegible] ultimis mensibus *inflatio*, quia etiam in simplici fœtu tumentes: nec denique ampla *ventris* ad latera *distensio*, quam [illegible] fingere potest. Rebecca geminos [illegible] divinavit, quia à Deo confirmata [illegible] item in muliere Ferrariensi gemellos pa[illegible] *Cananus* vitit apud *Amatum*.

Dividitur tamen in partem dextram & sinistram. In [illegible] ut plurimum masculi generantur, in hac foeminæ. [illegible] *Galenus* [illegible] Venatores, si percussæ feræ in dextrum latus conciderint [illegible] *Hippocrates* [illegible] *Petrus* [illegible] *Henr. Martinus*, [illegible]

D[illegible] dextra & [illegible] rum obtinuit [illegible] *Aristoteles* [illegible] extremo [illegible] eatur, in duas partes regionem illam dividens, quam tum conspectum [illegible] procreantur.

Superficies externa est lævis & æqualis, atque quasi [illegible] *humore* [illegible] Interna [illegible] *Cotyledonibus*.

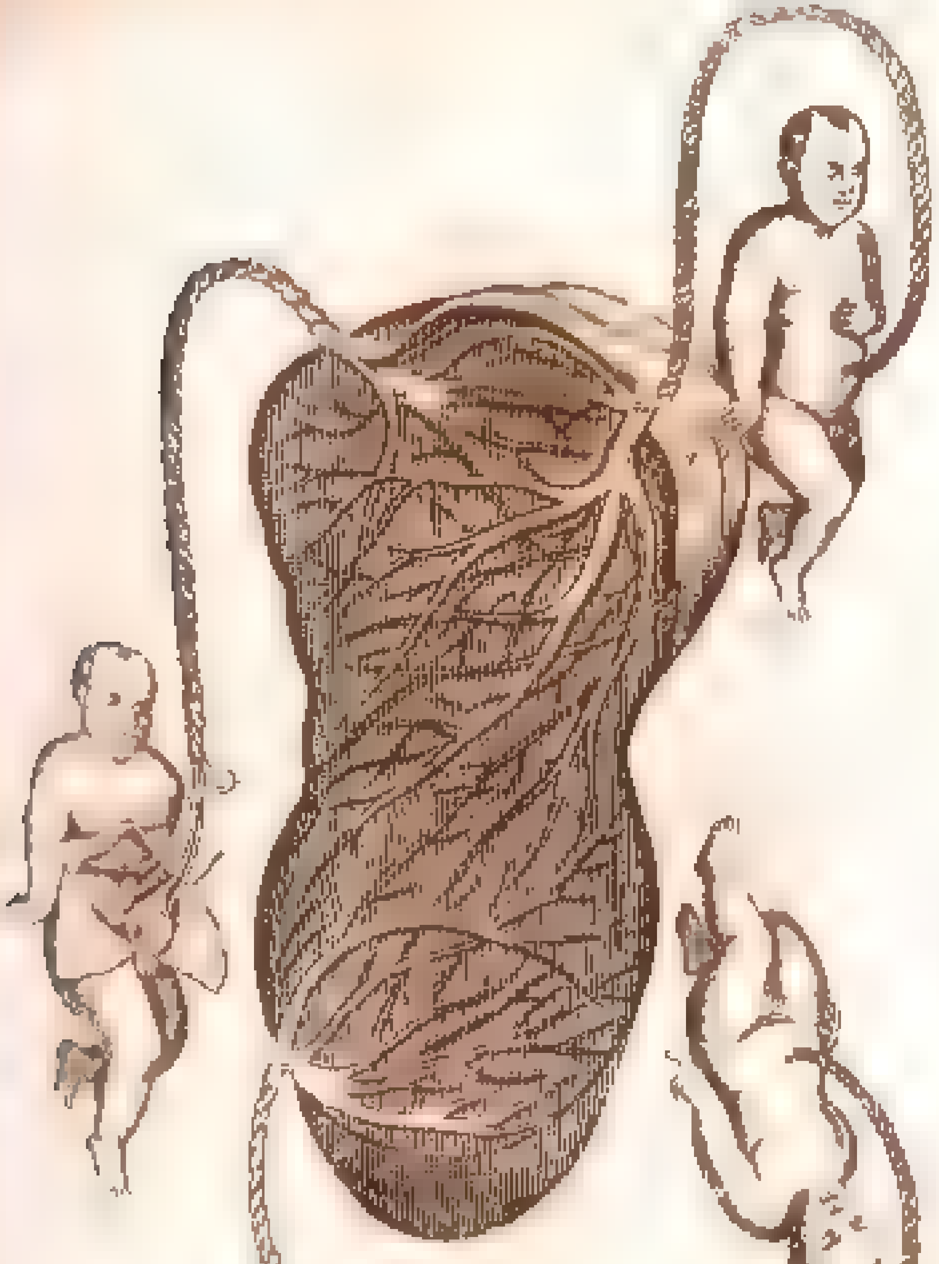
[illegible] est semen recipere, fœtum continere, nutrire, &c.

[illegible] *Orificium* [illegible] [illegible] procidit aut invertitur, ostiaceæ [illegible] exactè refert.

[illegible] fundū respiciat [illegible] non posse parere, & semen potest [illegible] Si plane declit [illegible] raro fit, sterilitas [illegible] incurabilis causatur [illegible] & sterilitas [illegible] si aliter [illegible] præsertim [illegible]

Sterilitatis [illegible]

prava



[illegible] & relaxatione, vel ex nimio co[illegible] scortis, vel ex nimio proflu[v]io [illegible].

[illegible] & [illegible] partes facilius in partu aperiuntur.

[illegible] *[illegible]nibus*

Per [illegible] quidem asuat ita claudi, ut ne [illegible] & M[illegible] & [illegible] [illegible]eratione, pravi conceptus [illegible] fit, emissione [illegible] & [illegible] admirando modo aperitur in partu, ubi pro [illegible] debet, ut [illegible] [illegible] post [illegible] & [illegible] [illegible] explicata [illegible] dilatari [illegible].

CAP. XXX.

DE UTERI COLLO MAJORI

I[illegible] *fundum* [illegible] *[illegible]* & [illegible] *[illegible]* [illegible] *vesica*. D[illegible] sequente agemus capite.

[illegible] sive [illegible] *uteri* [illegible] videre [illegible].

[illegible] & [illegible] instar vaginae.

[illegible] & [illegible]

[illegible] ... est & ampla- [illegible] ... ; In parte [illegible] ... etiam parta- [illegible] ... non parum refrigerantur foeminae.

[illegible] ... Longitudo ... est ... [illegible] ... Latitudo est, qua- [illegible] ... longitudo, & latitudo, [illegible] ... queant. Nam in congressu ad virgi- [illegible] ... longior [illegible] ... & ... [illegible] ... & cantibus [illegible] ... comprehendit [illegible]

[illegible] ... est & ... & ... [illegible]

[illegible] ... Rugae in collo uteri. [illegible]

[illegible] ... *Hel.* ... *Duplicem* vaginam habent ... [illegible]

[illegible] ... Orificii uteri. [illegible]

vel potius [illegible] [illegible] [illegible]
[illegible]
[illegible]
[illegible]

[illegible] *Uterus* [illegible] coll[illegible] extremum [illegible] [illegible] colli uteri [illegible] per os pudendi [illegible] A[illegible] vero [illegible] occ[illegible] adsit [illegible] *Hymen* [illegible] modo agendum.

Cap. XXXI.

DE HYMENE.

Dari [illegible] *virginitatis notam.*

Hymen seu [illegible] [illegible] adest, virginitatis nota adest.

An vero detur [illegible] *virginitatis nota*, [illegible] debet. Experientia [illegible] cunt, [illegible] magna vi & [illegible] perit [illegible] *Terentius* ait, [illegible] [illegible] *florem virginitatis* vocant.

Cur primo coitu virgines dolent & haemorrhagia [illegible]

Non ob [illegible] [illegible] & [illegible] [illegible] [illegible] ob [illegible] [illegible] vero menstruaque expertae [illegible] ob causas contrarias.

Si vero menstrua [illegible] aut paulo ante fluxerint [illegible] relax[illegible] facile penis intromittitur, [illegible] [illegible] dolor, pauci etiam [illegible] fluxus [illegible] temporis [illegible]

Quid sit virginitatis nota.

[illegible] spon[illegible] suspecta sponso [illegible]

[illegible] & [illegible] virginitatis nota consistat [illegible] & [illegible]

Opinio I. Arabum.

I. *Arabes* [illegible] centonem efformatam [illegible] [illegible] Haec [illegible]

Opinio II.

II. [illegible] quos *Fernelius* & *Pineus* [illegible]

hanc [illegible]

[illegible] ... [illegible] intrantur, [illegible] ... est, quæ [illegible] ... [illegible]

[illegible] ... [illegible] *Opinio III.*

IV. Recentiorum [illegible] opinio est *Severini Pinei*, [illegible] ... libellum de [illegible] ... [illegible] *Laurentius*. [illegible] ... *Marchettis* [illegible] *Opinio IV.*

V. Sed [illegible] communior est, [illegible] esse membra[illegible] ... [illegible] spatio supra [illegible] ... Atque pro hac [illegible] experientiae & auctoritates plurimae & [illegible] ... Anatomorum [illegible] *Aquapendente*, *Casserio*. Et [illegible] ... antiqui: *V. Opinio communis anatomicis firma.*

[illegible] cruentum perrumpere virginis hymen.

[illegible] *Archangelus Alexander Benedictus*, *Vesalius*, [illegible] & *Carpus*, [illegible] *Scaliger* [illegible] ... Ait enim: *Si quis super ea urinam* [illegible] *surgere [illegible], quæ prætereunt [illegible] si [illegible] sedeant, aut urinam faciant, [illegible] naturæ membranam, atque si à viro fuerint* [illegible] *& Sebizius* [illegible] ... *Bauhinus* bis [illegible] ... [illegible] *Spigelius* [illegible] ... deprehen[illegible] ... Nec [illegible] ... *Rolfincius* [illegible] ... [illegible] tam avem. *Refutatio eorum qui negant se per intuitum.*

[illegible] ... *& Pareus* [illegible] semper in [illegible] ... [illegible] omnes.

ctionibus; aut si putarũt se virgines [illegible] te fuere: aut si virgunculas; [illegible] quam ex petulantia eam rumpere [illegible] [illegible] & [illegible] [illegible] eam [illegible] [illegible] De [illegible] [illegible] abesse. Raro enim deest, ut [illegible] [illegible] *Avicennas* tanquam parum Anatomici [illegible]

VI. VI. Media est [illegible] *Melchioris Sebi*[illegible] [illegible] *Opinio.* [illegible] [illegible] dilatato & [illegible] & dolor in comple[illegible] a [illegible] contineri.

[illegible]

[illegible] in cod[illegible] [illegible]

[illegible]

Foramen hymenis meatum [illegible] *pudendi*. [illegible] *urinae.*

I. [illegible] constitutum, & respira[illegible] II. [illegible] III. [illegible]

[illegible] ab [illegible] illo [illegible] , unde [illegible]

Mercatus [illegible] quam in medio.

[illegible] Constrictur substantiae cervicis, ac si ex ea

[illegible] opus sit, praesertim quando [illegible]

[illegible] glans, quando laceratur.

[illegible] *an primo coitu* [illegible]

[illegible] refert *Leo Africanus*, [illegible]

Quaestio de egressu sanguinis in primo coitu.

[illegible]

elocentur. 8 Si humorum acrium defluxu [illegible] temperamenti & cœli vitio. Sanitores [illegible]

[illegible]

Potest vero sine læsa virginitate [illegible] quod frequens esse in Antarctico [illegible] *Americ*[illegible] [illegible] na [illegible] *Clementi*-*na*. Id quinque modis fieri [illegible] a *Piempio* & *Simbaldo*, [illegible] hoc conceptioni Salvato[illegible] quam asserimus sine horum al[illegible] [illegible] tus, quod à Deipara [illegible] *Jo. Bapt. Mantuanus* [illegible] [illegible] *Ma*-*gus* ut Deum se prof[illegible] natum jactabat. In [illegible] *angu*-*stiam* potuisse utero [illegible] cum [illegible] explicat & [illegible]

An fœ-minæ sine homine con-cipere pos-sint [illegible] de [illegible] *Pom*[illegible] *Mela* [illegible] [illegible] *Cara*[illegible] *Magdalena d' Aut*[illegible]*mont*, *Hieronymus Augustin. de Montelione*, [illegible] *Emanuel* [illegible] *de Lara*. [illegible] *P. Sanchem*. [illegible] explicat *Justinus Epise-*[illegible]

Cap. XXXII.

DE PVDENDO MVLIEBRI EXTERNO IN GENERE.

V[illegible] est consideratu, occurrit alterum & externum [illegible] Muliebre Pudendum, vel orificium ex [illegible], alijs *vulva* [illegible] valvarum [illegible] aut [illegible] fortè dictus. *Plauto* [illegible] concha, & [illegible] Romanis posteà [illegible] *Varronem*. Q[illegible] *Suidas* & [illegible], hoc est, cantum vocare [illegible] experti.

[illegible] inventa apud [illegible] & [illegible] *Laurens* plures observavit. [illegible] *Ranuccio* [illegible], sed [illegible] pervidit.

[illegible] in anteriore ossis pubis regio- [illegible] apparent partes extra [illegible], & [illegible] quæ etiam [illegible] pubis [illegible] & monti- culi [illegible] [illegible] [illegible] [illegible] vel os [illegible] [illegible] [illegible] [illegible]

P[illegible] meatus clau- [illegible] virginibus, colore vario, natura produ[illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] Magna Fossa [illegible] exteriori [illegible], & [illegible] vocare pudu- [illegible] [illegible] [illegible] [illegible] tum vel in prægnantibus, teste *Plazzono* [illegible] [illegible] [illegible] [illegible] ra[illegible]

FIGURARUM EXPLICATIO

Tabula hæc Vag[illegible], Clitoridem [illegible] muliebre externum in virginibus & gestantibus comprehendit.

FIGURA I.

AA. *Uteri fundus transversim dissectus.*
BB. *Cavitas fundi.*
C. *Cervix uteri.*
D. *Osculum in cervice uteri mulieris quæ fœtum gestavit.*
EE. *Vagina uteri dissecta rugosa facies.*
FF. *Ligamenta uteri teretia abscissa.*

FIGURA II.

A. *Nympha seu potius Clitoris in suo situ.*
BB. *Labia pudendi.*
C. *Colli vesicæ prope pudendum insertio.*
DD. *Pudendum.*
EE. *Alæ.*
FF. *Uteri collum abscissum.*

FIGURA III.

A. *Clitoridis corpus sub cute prominens.*
BB. *Labia pudendi externa districta.*
CC. *Alæ seu Nymphæ pariter diductæ.*
D. *Caruncula meatui urinario [illegible] circumposita.*
EE. *Productiones duæ carnosæ myrtiformes.*
FF. *Expansiones membranosæ rimam continentes.*

FIG. IV. Puellæ pudendum exhibet.

a. *Clitoris.*
bb. *Labra pudendi.*
cc. *Alæ seu nymphæ.*
d. *Orificium urethræ, seu meatus urinarij.*
e. ff. h. *Carunculæ 4. myrtiformes.*
e. *Carunculaū summa & bifida urethræ orificiū occludens.*
g. *Hymenis foramen.*
h. *Caruncularum infima.*
i. *Anus.*
k. *Perinæum.*

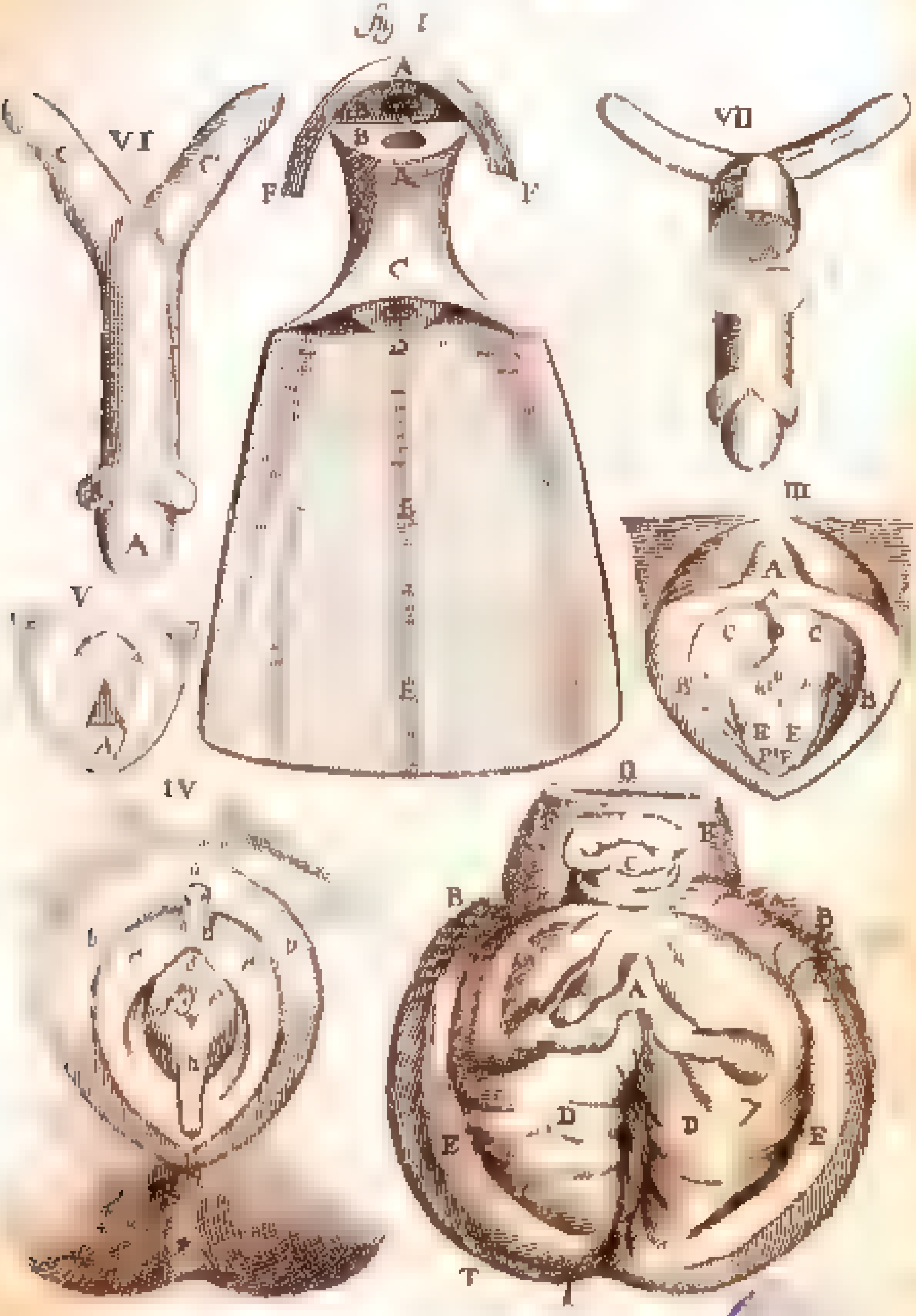
FIGURA VI.

FIG. V. Litera A. ostendit membranam transversim [illegible] inductam, quibusdam pro hymene habitam.

A. *Clitoridis summitas glandi virili respondens.*
B. *Præputium ejus.*
CC. *Clitoridis utraque crura Ischij tuberi abscissa.*

FIG. VII. Clitoris transversim secta, interior ejus fungosa substantia apparet.

TABULA XLVIII.



[illegible] *Rolfincio*. Quo tendant meatus, [illegible] *Lindan* & [illegible] vasa esse excretoria seu lymphatica, [illegible] po[illegible], vel [illegible] [illegible]. [illegible] [illegible] [illegible]

[illegible] autem fossa una cum [illegible] [illegible] parte [illegible] [illegible] potest, ubi membranosa, [illegible]

[illegible] occurrunt [illegible] dextr. & sinistra, [illegible]

[illegible] *caruncula* [illegible] quibus [illegible]

CAP. XXXIII.

DE CARUNCULIS MYRTIFORMIBUS.

IN medio fossæ apparent quatuor CARUNCULÆ, statim post alas.

Sitæ, ut quælibet unum angulum occupet, & per [illegible] dearum se [illegible] spectant.

Una [illegible] anterior est [illegible] ambitu foraminis [illegible] urinarii ad [illegible], [illegible] [illegible] inter vesicam externum [illegible], &c.

Secunda huic opposita [illegible] *Riolano* [illegible], *duæ* reliquæ sunt collaterales.

Figura myrti baccæ [illegible]

Magnitudo variat [illegible] in ali[illegible] [illegible], [illegible] [illegible] [illegible] nec unquam concrescunt, etiam in iis, quæ sæpiusima conver[illegible] peperere.

A[illegible] habent [illegible] membranas [illegible] [illegible] *Pineaus* [illegible] *Substantia* ut [illegible] carnea, [illegible] membran[illegible].

Foramen [illegible] carunculas [illegible] cap[illegible], pro ætate cujusque [illegible] *Romanus* [illegible] magnæ [illegible] partem in [illegible]

Format [illegible] carunculas ex corrugatione carnosæ vaginæ pudendi [illegible], ut [illegible] vagina, [illegible] potuit [illegible] in puerpera post [illegible] observavit [illegible] ex magna pudendi [illegible] [illegible], nec [illegible] [illegible] constricto pudendo & ad naturalem [illegible].

Usus est [illegible] partem internam, [illegible] [illegible], [illegible] [illegible] nympha & labia pudendi [illegible].

II. [illegible] & [illegible] [illegible], & [illegible] [illegible].

Situs [illegible] [illegible] [illegible] [illegible], [illegible] membrana [illegible] [illegible] [illegible] relinqua- [illegible] [illegible] nec trans- [illegible] [illegible], sed in longum ut figura totius [illegible] [illegible] [illegible].

CAP. XXXIV.

DE CLITORIDE.

Hujus inventionem [illegible] *Fallopius*. *Columbus* vero [illegible] [illegible] [illegible] [illegible] [illegible] *Avicenna*, *Albucasis*, *Ruffus*, *Pollux* & alij.

Alij nympham vocant, ut *Aëtius* & *Ægineta*. *Columbo* [illegible] [illegible] & [illegible] Veneris [illegible] hæc pars [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], *Κλειτορίς* [illegible] *Philænis* [illegible], quæ [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. *Apostolum Paul.* Rom. 1. 26. [illegible] hæc pars [illegible] [illegible] [illegible].

Nomina hujus partis.

Κλειτορίς.

Similitudo clitoridis & penis.

[illegible] *Clitoris* [illegible] [illegible].

Situs [illegible] [illegible] [illegible] [illegible] & anteriore [illegible] [illegible] [illegible] nymphæ, ante [illegible] [illegible].

Magnitudo [illegible] est [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] prominet. [illegible] [illegible] [illegible] [illegible] se clitoris exerere. [illegible] [illegible] major est vel minor. In nonnullis propendet [illegible] [illegible]

[illegible] videlicet parvulæ continuo & parte ni connectente & [illegible] excep[illegible] [illegible] & [illegible] monstruosam fore est [illegible]

[illegible]

[illegible] quando contrahit [illegible]

Substantia [illegible] ossea, quanquam [illegible] Venero [illegible]

[illegible] conjunguntur, & [illegible] corpus constituunt. [illegible]

Muscula. [illegible]

[illegible] *Marchettus*, at potius sit portio [illegible] vaginæ [illegible] musculos.

Extremum [illegible] instar glandis [illegible] foramen [illegible]

[illegible], quod constituit tenuissimæ [illegible]

[illegible]

Vena & arteria [illegible] à [illegible] plexu prope renes *Veslingio*, vix [illegible] omnia [illegible] quam corporis ratio [illegible]

Usus est, ut sit sedes delectationis & amoris [illegible] [illegible] excitatur.

[illegible] *Aquapendens*, [illegible] collum in coitu [illegible]

[illegible]

Cap. XXXV.

DE ALIS ET LABIIS.

P[illegible] quæ *πτερύγια* appellant, Alas.

Græcis Nymphas [illegible]

[illegible] aliȷ carunculas cuticulares.

Situs est inter utrumque labium.

Magnitudo [illegible] excrescunt, [illegible]

[illegible] tectibus [illegible] possit amicam copulam, [illegible]

Numero [illegible]

Figura [illegible]

Color est [illegible]

FIGURÆ EXPLICATIO.

[illegible] Vasorum Spermaticorum, Testium & [illegible] Uteri [illegible] [illegible] ramificationibus.

AA. *Vasa spermatica utriusque lateris, ab ovario ad [illegible] Tubam & Uteri fundum disseminata.*

B. *Vena & arteria [illegible] in utroque latere corpus [illegible]*

C. [illegible] *seu [illegible] uteri, venarum [illegible] transparentibus [illegible].*

D. [illegible] *& arteria [illegible] disseminata.*

E. [illegible] *assumit [illegible] vasa ad Tubam [illegible]*

F F F F. *Vasa [illegible] spermaticorum cum hypogastricis [illegible] per latera colli [illegible] descendentibus, sub Tuba & ligamento rotundo, in utroque latere unio.*

G G. *Vena hypogastrica utrinque.*

H H. *Arteria hypogastrica in utroque latere.*

I I I I. *[illegible] anastomoseon arteriarum uteri.*

K K K K. *Implicationes venarum uteri.*

L L. *Tuba seu cornu uteri sinistrum.*

M. *Tubæ [illegible] amplum ac [illegible], una cum fimbriis [illegible] continuo [illegible].*

N. *[illegible] Testis [illegible] separata & [illegible] spermaticorum [illegible] ductus ad ovarium & [illegible] cernantur.*

O. *Tuba uteri dextra inversa, ut tanto melius ejus amplitudo, [illegible] per quam ova ex ovario in uterum provolvuntur, in conspectum veniat.*

P. *Fimbria tubæ dextra uteri.*

Q. *Uteri fundus [illegible] protuberans.*

R. *Uteri fundus [illegible] apertus.*

S. *[illegible] transversim [illegible] vasorum copiosa ora in [illegible] substantia.*

T. *Pars membranæ [illegible] rotundum operiens.*

V V. *[illegible] & rotunda uteri ligamenta, [illegible] membranam in [illegible] & [illegible] ad clitoridem & pinguedinem pubis propagantur.*

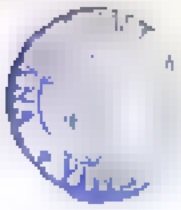
X X. *Clitoridis crura externa.* Y Y. *Clitoridis crura interna.*

Z Z. *Vasa in clitoridem dispersa.*

[illegible] *ad latus dextrum à loco suo remota.*

[illegible] *vesica prope clitoridem insertio.*

[illegible] *Ureterum in vesicam insertio.*



[illegible] per [illegible] tam cute, quæ ma[illegible] & [illegible]

Substantia [illegible] partim [illegible] & fungosa, [illegible] duplicat [illegible] magna [illegible] partim carnosa.

[illegible] partem muscularem [illegible] & [illegible] parietes feratur. Insiter ligamenti suspendere, ac velum coarctare in virg[illegible] hiatus externi partem inferiorem verosimile non videtur, quod [illegible] tamen visum. Labia [illegible] præstant, magis [illegible] co[illegible] defloratas, [illegible] longiores.

LABIA duo, inter quæ [illegible] externum constituta, [illegible] quæ mont[illegible] Veneris [illegible], [illegible]. In [illegible] semper [illegible] sunt. Hæc pars [illegible] mol[illegible] & [illegible] sunt, & carne, partim & spongiosa, cui pinguedo subjacet durius cula.

[illegible] Labiorum Com[illegible] tensa est, [illegible] ligamentosa, in [illegible] pepererunt [illegible], experientia *Riolani*, & [illegible]. [illegible] auriculam [illegible].

Usus est ut supra.

CAP. XXXVI.

DE MEMBRANIS FOETUM INVOLVENTIBUS.

PArtes omnes procreationi inservientes, tam viriles [illegible] tam muliebres explicatæ sunt: Verum quia inst[illegible] [illegible] omnia exponere, quæ sub [illegible] anatomi[illegible] quæ iam etiam proponenda sunt, quæ in [illegible] continentur, ut sunt

I. [illegible] structura [illegible] tantum differt [illegible] homine [illegible] breviter [illegible], prout in diffe[illegible] publice [illegible]. Differunt [illegible] [illegible] ab Embryone tenero, & [illegible] adulto homine 1 *Magnitud*[illegible] vel proportionata [illegible] vel minus proportionata 2 *Colore* [illegible] adulto [illegible], quæ [illegible] pallent. 3. *Figura*, ut [illegible] capite, videre [illegible] 4. *Cavitate* [illegible] vasis & corde. 5 *Numero* vel *abundanti*. *In quibus differat fœtus ab homine adulto.*

ut in offibus capitis, sterni, & suturis cranij, vel [illegible] ne incremento, ossibus nonnullis, dorsi, carpi, &c. 6. [illegible] in iisdem ossibus. 7. *Situ*, ut dentes. 8. *Usu*, ut vasa [illegible] licalia, cotulis, cœcum, &c. 9. *Motu*, ut pulmone [illegible] *Excrementis*. 11. *Robore* & totius perfectione.

[illegible] tos occurrerunt.

1. [illegible]

2. [illegible] foveri possint.

3. [illegible] qui in amnio, vel lenta humiditate irrigatus.

4. *Cœcum* intestinum amplius modo crassum, [illegible] ob [illegible]

5. *Intestina tenuia* cont acta apparent, flavis ex [illegible]

6. [illegible]

[illegible]

7. [illegible] compa[illegible] *Succenturiati* grandiores, magisque excavati.

8. [illegible]

[illegible]

[illegible] glandulosi Intestinorum interiores
B [illegible] ssectum intestinum inversum.
CCC Vasa per tunicam exteriorem dispersa
DD Rugæ s. plicæ interioris tunicæ
ex communicatione
SWAMMERD.

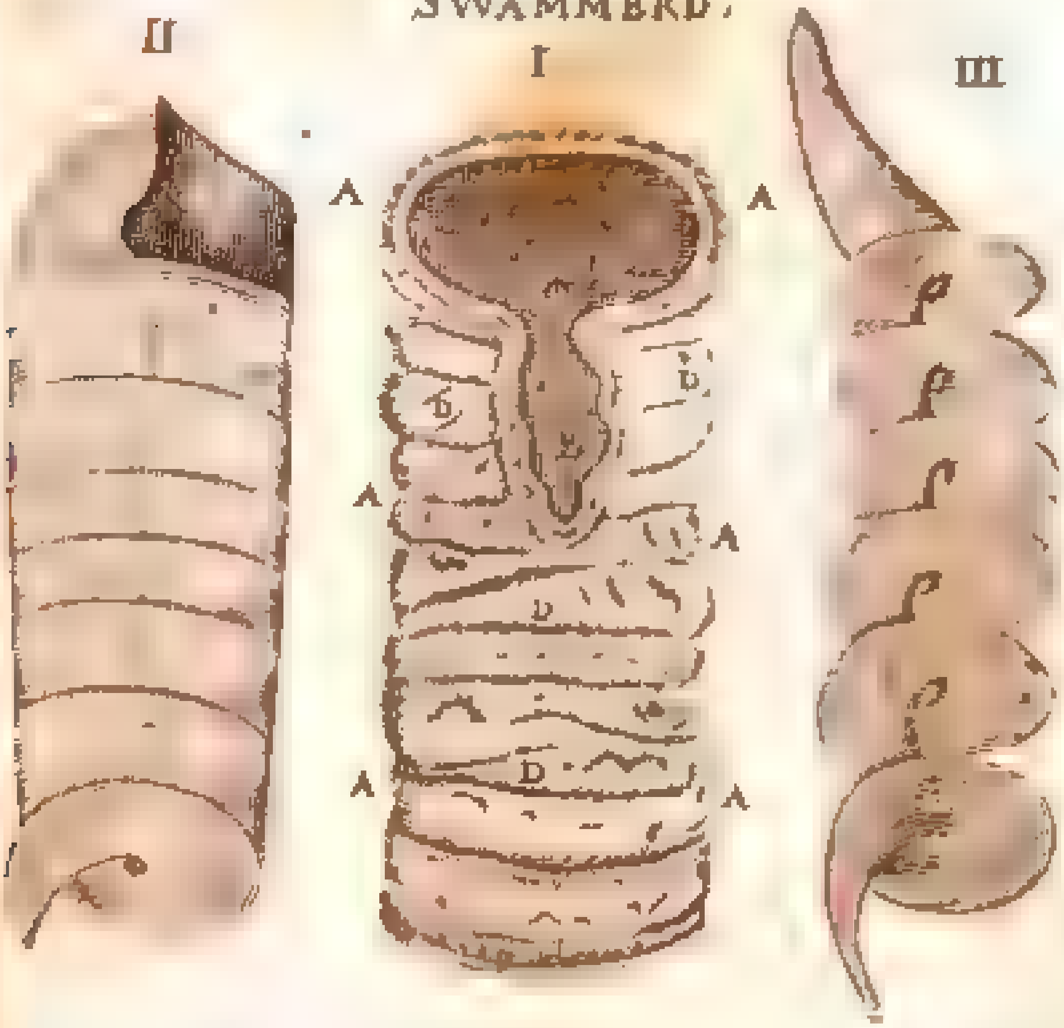


fig. II. et III
eiusdem

Valvula intestini Rayæ cochlearis

FIGURARUM EXPLICATIO.

Differentes fœtus ab adulto partes demonstrat.

FIGURA I.

A A. *Renes succenturiati.*
B B. *Renes veri, variis glandulis adhuc distincti.*
C. *Arteria magna, ex qua rami ad capsulas & renes.*
D. *Vena cava, ex qua Emulgentes, & capsularum venulæ*

FIGURA II.

Situm fœtus in utero monstrat, qui ta[illegible] variat.

A. *Caput pronum, ut nasus inter genua recondatur.*
B B. *Nates quibus calcanea applicantur.*
C C. *Brachia.*
D. *Funis per collum ductus, & supra frontem reflexus, continuatusque cum placenta in sequenti fig. expressa.*

FIGURA III.

A A A. *Chorion membrana divisa.*
B B. *Amnios funem adhuc obvolvens.*
C C. *Placentæ uterinæ pars concava interior fœtum spectans, cum ramulis vasorum.*
D. *Funis contorti portio.*

FIGURA. IV.

Placentæ externam faciem exhibet, utero adhærentem, sed hic avulsam, cum E E E E fissuris rimisque, numero & profunditate variis.

FIGURA V.

Fœtus dissecti sceleton, in plurimis ab adulto differens, ut ex textu liquet.

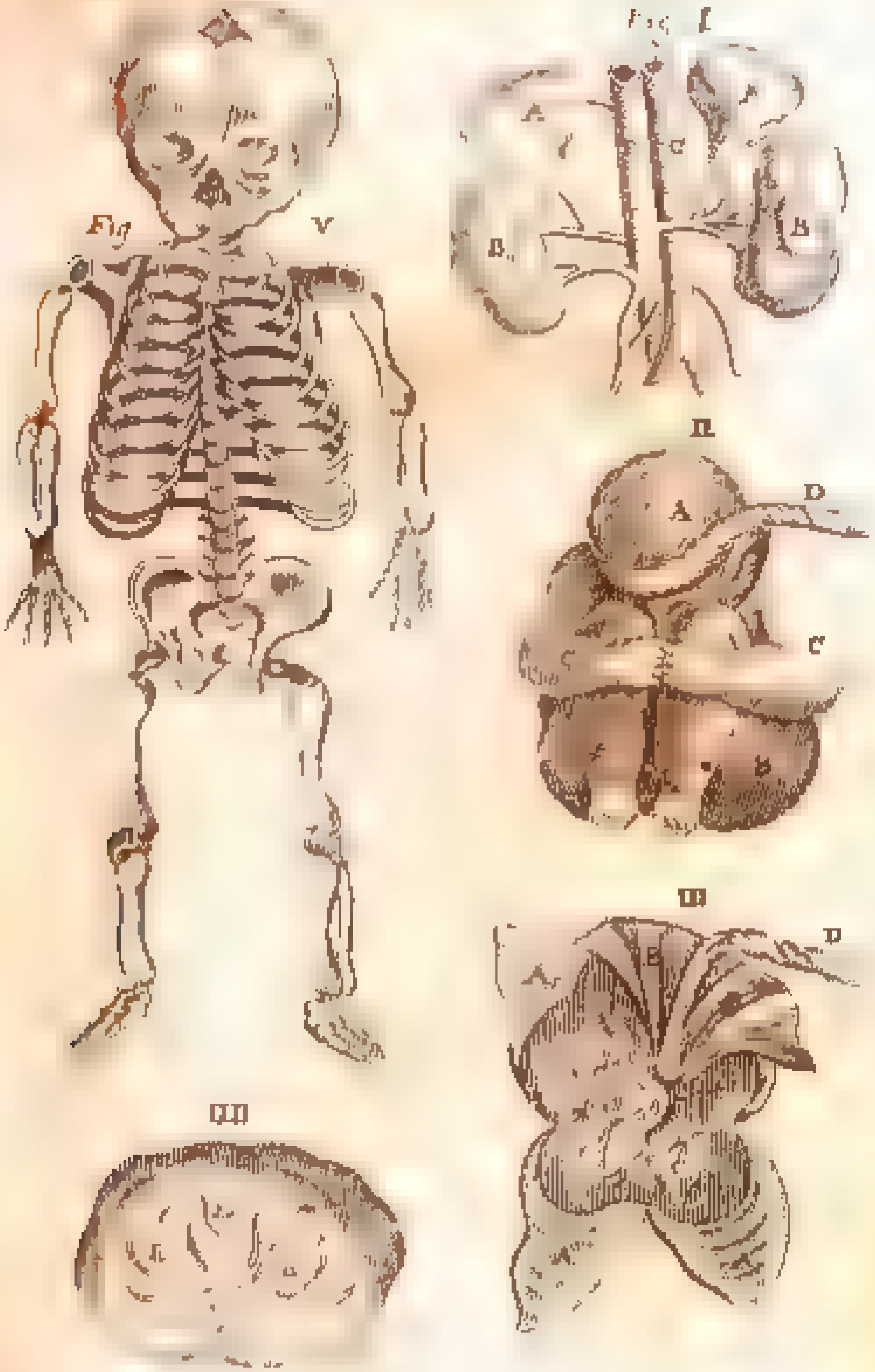


Fig. I
A
B
C
B
II
A
D
C
III
A
B
D
IIII
Fig. V

mentario, cum [illegible] facco chyloso alatur. In [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] dior, sub [illegible] orque.

[illegible]

[illegible] glandula majori cunnec.

[illegible]

12. [illegible] nalculum singulares, de quibus *libro seq.*

13. [illegible] *Hippocrat*[illegible] [illegible] *Nicolau*[illegible] a fermentatione liquorum [illegible].

14. [illegible] tre continuum suturas pertransit.

15. [illegible]

16. [illegible] *Sutura* [illegible] *Dentes* [illegible]

[illegible] tegivis tecti, latent. *Vertebra* processibus [illegible] [illegible] *Iumo*, [illegible] & [illegible] [illegible] accuratius [illegible] *Carne* & [illegible]

[illegible], ut cut[illegible], unguibus, & [illegible] est [illegible]

[illegible] vel [illegible] & [illegible]

III. [illegible]

[illegible]

[illegible] calor, [illegible] in utero calor, non fieret con[illegible]

Membrana [illegible] *Arant*[illegible] [illegible], circa [illegible] est [illegible]

[illegible] Amnios dicitur, ob mollitiem & te[illegible] Estque omnium tenuissima, alba, [illegible] plicet [illegible]

An so-lus uterus efficiens membranarum sit.

Omnio-nes vario de [illegible] membranarum foetus.

Numerus membranarum.

Secunda quid & cur ita dicta?

extremitat [illegible] circa placentam & in eod[illegible] valu[illegible] contentus A[illegible] [illegible] [illegible] *Aquærendens* ve[illegible] [illegible] humore & [illegible] nam diver[illegible] [illegible] chorion [illegible] & exte[illegible] sap[illegible] in amnio, ang[illegible] homine quoque [illegible] [illegible] & [illegible] quia [illegible] manifeste [illegible] [illegible] [illegible] [illegible] [illegible] molesta[illegible] tenera[illegible] tempus in [illegible] plerum[illegible] [illegible] ob alimenti [illegible] & [illegible] lento [illegible]

Humor in amnio unde.

Cæterum [illegible] placet *Harveyo*, qu[illegible] humor prius in conceptu reperi[illegible] fœtu appareat & [illegible] citur. 2. In [illegible] per [illegible] 3. [illegible] copia abundant. 4. Multa animalia [illegible] [illegible] [illegible] 5. [illegible] [illegible] humores per chorion [illegible] [illegible] 7. Multa [illegible] [illegible] ob [illegible] qui [illegible] *Severus* 8. [illegible] quanto [illegible] [illegible] [illegible] *liquam* vocat, [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] tes [illegible] & [illegible] [illegible] tat commun[illegible] [illegible] *Harveji*,

1. Ut innatando quasi in balneo levior reddatur. [illegible]

II. Ne

I. Ne impingat fœtus in partes vicinas duriores.

II. [illegible]

[illegible] alimentum, quod ore sugat.

Amnion [illegible] unde *Galea* [illegible]. Hinc *galeam* [illegible] in fœminis [illegible] obstetrices ad [illegible] & fœtu [illegible] auspiciis [illegible] ominatur. — *Galea quid?*

Paræus & *Lemnius* [illegible] *Bellerus* [illegible] Ego [illegible] Tam [illegible], imo [illegible] ac robusti [illegible].

Secunda membrana dicitur CHORION, eo quod instar circuli fœtum ambiat.

[illegible] *Harveo* [illegible] *Riolano*, *Sigero* [illegible] adhærent verticilli vel cotyledones, ex carnosa & spongiosa substantia constantes: In homine vero [illegible] — *Cotyledones quid?*

[illegible]

Usus membranæ. [illegible] *Hervejanus* [illegible] sequuntur, *Courtæo* [illegible] *Everardus*, [illegible]

1. Ad [illegible] fœtus [illegible]. [illegible] pabuli fœtum exire, & primis [illegible] mensibus [illegible] [illegible] & [illegible] quæ primis mensibus [illegible] abundant [illegible] utero, [illegible] mas, interprete *Courtæo*.

2. Ad [illegible] & [illegible] membranam transmissam.

3. [illegible] interceptum, ne [illegible] cum [illegible].

An humor nutritius in chorio? [illegible] vero *Aldes* in [illegible] cum postremo [illegible] alterum qui in Amnio est, [illegible] æquante, (cum in eodem [illegible] trium partes [illegible] valde parum humoris pro [illegible] parte [illegible] [illegible] fœtum, cum [illegible] partus nihil con[illegible] [illegible] pro rata parte [illegible] [illegible] qui [illegible].

4. Ad obvolvendum fœtum & ab injuriis [illegible] defendendum.

[illegible] PLACENTA UTERI [illegible] mata, [illegible] UTERINUM quod [illegible] prout mihi videre contigit.

Figura [illegible] est, [illegible] [illegible] Quæ [illegible] duxit, incisaque hac parte fibras [illegible] quartis, ad venarum truncos [illegible] *habet* [illegible].

Numero [illegible] quæ [illegible] [illegible] *Riolanus* [illegible] habeant suam propriam. Id [illegible] In [illegible] quoque Romanis *Guil. Rivæ*, nescio tamen an eiusdem sexus. Unicam placentam nobis

cum

[illegible] observavit tamen unam istam ge- [illegible] [illegible] nter sit appropriata. Quod discrimen [illegible] ellis, nec *Besterus*, sed ramulos [illegible]

[illegible] Pes tamen unus circiter in diametro [illegible]

[illegible] colore distingui, illas ex nigro [illegible] His tamen fanguis velut concretus est affusus [illegible] placentæ in hominibus.

[illegible] undique amplectatur. *Fallopius* suo modo [illegible] soli chorio propriam.

[illegible] uteri natura aut facies. Hinc inde eorum *glandu-* [illegible]

FIGURÆ EXPLICATIO

[illegible]

AA. *Corii dissecti partiones à fine [illegible]*

B. *Amnij portio.*

C. *Vera diss[illegible] membrana.*

D. [illegible]

E. [illegible]

F. [illegible] *per quod [illegible] à placenta in umbilicum feruntur.*

GG. [illegible]

H. [illegible]

Vasa habet *Venas* & *Arterias*, [illegible] ex [illegible] venas efformant arte[illegible] [illegible]res, ut nulla pars [illegible] non sit [illegible] [illegible] sive instrumento adigi possit sanguinem [illegible] [illegible] placentam [illegible] [illegible] [illegible] venas & arterias pro [illegible] [illegible] pothesi scribit *Regerfius* [illegible] [illegible] hæc vasorum [illegible] circumligata, [illegible]

Vena est [illegible] ad fulcrum vasorum umbilicalium, quibus [illegible] pulvinare substernitur.

[illegible] sanguinem [illegible] per vasa [illegible] [illegible] in [illegible] venam [illegible] sanguinem [illegible] materiam per venulas

Tabula III.

[illegible] arterias umbilicales enatas ab iliacis [illegible] [illegible] & [illegible] tatis tempo [illegible] [illegible] nervo [illegible] 4. [illegible] ab utero [illegible] ex [illegible] [illegible] cus ac aqua per venas terræ transfluẽdo purificatur & [illegible] [illegible] unde in homine ampla est & crassa. 6. Pro [illegible] ad ve [illegible] [illegible] osculis tam [illegible] [illegible] [illegible] *Malpighius* per quam [illegible] [illegible]

Tertia ALLANTOIDES, id est, farciminalis, non [illegible] [illegible]

[illegible] in brutis. [illegible] [illegible] *Hygmoro* [illegible] [illegible] in homine [illegible] quia ab hac Allantoide [illegible] *aquæ sudorum* [illegible]

[illegible] *Harveo* [illegible] *Everardo* [illegible] ... dictam quia [illegible] ... pat, ab aliis allantoidem, quia sic item [illegible] ... vetur, esse potius aliquid [illegible] ... tum. Urinæ autem continen[illegible] ... quia [illegible] ... ovido & [illegible] tectum quo [illegible] ... piam [illegible] ...

[illegible] ... venta in Allantoidem, & vice ver[illegible] ... tam, per Urachum pervium, levissima p[illegible] ... inadvertit, omniaque illa animalia All[illegible] ... vel qui [illegible] Urachus non est pervius, imo [illegible] ... eoque in Amnio conclusio nutriri ex abo[illegible] ... fectionibus animaliū, autopsia certior [illegible] ... Urinam datam, quia humor qui in amn[illegible] ... rus, serosior seu tenu[illegible] est. V[illegible] ... [illegible] vitulini & ovilli nil fere cōcresc[illegible] ... pha super ignem [illegible] ...

Causa erroris *Harveyo* hæc fuit, suspi[illegible] ... [illegible] ... nam membranam ambit, [illegible] ... humore [illegible] ... tae. [illegible] ... nis, neq; a manet Allantoid[illegible] ... turbidiore, sive urina plena [illegible] ... Allantoidem in b[illegible] ... sæpe & ad spectaculum [illegible] ... [illegible] esse, quod ub[illegible] ...

[illegible] *Jacob Angelus* quod non [illegible] ... [illegible] dicitur, unde quod [illegible] ...

[illegible] diversitati subsectionum [illegible] ... [illegible] abundam. [illegible] ...

in [illegible] omnia [illegible] non [illegible] res [illegible].

[illegible] *Nec[illegible]* [illegible] Quo[illegible]

Quartam [illegible] *Nec[illegible]* [illegible] referam vasis [illegible] ad [illegible]

CAP. XXXVII.

DE VASIS UMBILICALIBUS

D[illegible] VASA UMBILICALIA [illegible] tur, nodoque conclusa.

Umbilicus quid & quibus constituatur partibus. UMBILICUM [illegible] tramur brachiis extensis.

Sunt autem [illegible] VENA UMBILICALIS [illegible] & ARTERIAE [illegible] tur communi quadam

Tunica [illegible] volvit, sed & distinguit singula.

Estque hujus tunicae usus, ne vasa [illegible] rumpantur aut alio modo [illegible] *Hoboken[illegible]* [illegible] tur [illegible]

Vena umbilicalis. VENA UMBILICALIS [illegible] major [illegible] [illegible] to [illegible]

[illegible] [illegible] *portam* [illegible] circ[illegible] [illegible]

[illegible]

[illegible] atque pro- [illegible]

[illegible] sunt, quia utero non inguntur [illegible]

[illegible] alternat, [illegible] vel ab utero immediate, [illegible]

[illegible] ratur, & per vim in partu abrumpitur,) exsugitur per tu-
bulos primum ex utero in placentae extremitatem, ex his in
[illegible] capillares venas, ex minimis in maiores, [illegible]

[illegible] *Nodi.*
aliud sunt quam membranae carnosae, carnosiores [illegible]

[illegible] se coalet [illegible], ubi inter se convolvuntur.

Ex nodorum illorum numero coniiciunt obstetrices li- [illegible]

[illegible], & tumidior, maiorem secundarum [illegible] praesagiunt [illegible] inepte, non enim ex hoc nodorum [illegible]

FIGURÆ EXPLICATIO.

Placentæ Venam & Arterias omni parenchymate denudatas ostendit, ex Kerckringio.

A. *Funiculus vasorum umbilicalium.*
B B. *Arteriæ umbilicales.*
C. *Vena umbilicalis.*
D. *Locus ubi vena & arteriæ in diversa abeunt, & se per corpus placentæ dispergunt.*
E E E E. *[illegible] Vena.*
F F F F. *Rami [illegible] arteriarum, qui [illegible] quidem [illegible], sed [illegible] & implicantur, ut eas ab invicem distinguere non sit facile.*
G G G G. *[illegible] tum venæ tum arteriarum, passim ita inter se implicata, ut distingui nequeant.*

ven[illegible], [illegible] casus sæpe ad credulitatem fœminarum spem confirmant.

Æ. tertia. Ar[illegible] in [illegible] cum vena [illegible] [illegible] quæ [illegible] non [illegible] fœtus [illegible] [illegible] *[illegible]* vat[illegible]. [illegible] quod [illegible] *Harveius* [illegible] corp[illegible] [illegible] terra vitales fœtus extrahũtur ex demortua matre, & vita fruuntur [illegible], vel potat quam [illegible] calia [illegible] idem [illegible] fœtu ortus sunt [illegible] uterinã, interque alias mem[illegible] [illegible] iudicio sanguinẽ [illegible] ramos duos in [illegible] mittant, & spiritu [illegible] & [illegible] sanguine [illegible]

G
G
G
B
C
E

ro adveniente. Hinc arteriæ duplices, vena [illegible]
Vassæo [illegible], vena tantum non [illegible], quanti [illegible]
[illegible] arteriæ, cum pars [illegible] nutritionem fœtus [illegible]
At una tantum esse vena *Th. Cornelius* [illegible]

[illegible]

intra ligaturam & fœtum, [illegible]
turam & uterum matris.

[illegible] *Aranti* [illegible]

[illegible]

Aranti [illegible] hic notavi *all'Ifrme* rationes Modo [illegible] & [illegible]

[illegible]

novum ab utero cruorem.

Umbilicus [illegible] vel p[illegible]

[illegible] *Hippocrate* & *Harveo* [illegible]

[illegible] *Hippocrates* & *Harveus* [illegible] *Harveus* [illegible]

[illegible] & [illegible] Hippocrate voluit. [illegible] & Primerum [illegible] [illegible]

[illegible] Hippocrate, [illegible] [illegible] immensum, & [illegible]

Ille vero cum non sufficiat, Hippocrate docente, crescen- [illegible] alimento pinguiori [illegible] gente, ex lacteis, dilatato [illegible] placentæ [illegible]

[illegible] Facilius se expedant, qui cum [illegible] In animo brutorum vidi [illegible]

FIGURARUM EXPLICATIO.

FIGURA I.

Fœtum ostendit utero exemptum, placentæque adhuc alligatum, separatis circa exortum vasis umbilicalibus.

A A A. *Abdomen apertum.*
B. *Hepar fœtus.*
C. *Vesica urinaria.*
D D. *Intestina.*
E. *Vena umbilicalis.*
F F. *Arteriæ umbilicales.*
G. *Urachus.*
H. *Vasa umbilicalia à chorio ad fœtum ex[illegible].*
K. *Ligatura qua intumescunt infra vena, detumescunt arteriæ.*
L L L L. *Vena & arteria per placentam dispersa.*
M M M. *Placenta uteri.*

FIGURA II.

Repræsentat ductum intestinalem in Pullo ex *Needham.*

A. *Ovum.*
B B. *Intestinum.*
C. *Ductus intestinalis justo major.*
a a a a. *Arteria trans Intestinum ad vitellum tendens.*
Ex alia parte supponi debet tum arteria tum vena.

Eorum contorsio. Extra umbilicum & placentam maxime hæc vasa [illegible] funiculo suo [illegible] procedunt, inter se egregie *contorquentur* [illegible]

[illegible]

Notandum [illegible] conjunctione distantia, mirabilem texturam apparere, [illegible]

Longitudo funiculi. [illegible] *Couvreum & Everardum* [illegible] volunt foetum [illegible] tagatur, nec libere se movere potest.

Crassities. *Crassities* [illegible] parte [illegible]

Ligatura umbilici. [illegible] *ligandus* [illegible] vitæ futuros.

[illegible] robusta *cute* [illegible] dilatari potest, ad [illegible] diatus. [illegible] extenuetur, tumoribus elabentibus

[illegible] sanguinisque acri- [illegible]

[illegible] purgantibus [illegible]

[illegible] *Umbilicus* [illegible]

lateral a vesicæ, quia usus [illegible]

[illegible]

ita exempla vidit *Riolanus* [illegible]

omphalocele judicare potest. [illegible]

[illegible] quoque internæ [illegible]

[illegible] *Urachus* [illegible]

vesicæ ab interiori vesicæ tunica, exteriori [illegible] non eodem mo-

do se habet in brutis atque in homine.

In brutis fœtu [illegible] extra [illegible] tamen ex [illegible] den [illegible] edere [illegible] Negat *Arantius* [illegible] *Hoff*[illegible] quam con[illegible]catus [illegible] a ternas umbilicales [illegible] *vesica pro*[illegible] com plecte [illegible] dem non concedit. Vesicæ autem illæ processus, Urachus est [illegible] *Noodanus* [illegible] à vesica incipiendo, ac deficere di[illegible] domine, quia [illegible]

In homine [illegible] duæ membranæ.

2. [illegible] *Carpus*, *Aranti*[illegible] *Cortesius*, *Riolanus* [illegible] corpo[illegible] *Aquapendens*, *Spigelius* & *Highmorus* [illegible] petitoria [illegible] & [illegible] quando [illegible] [illegible] quod [illegible] [illegible]

Urachũ in homine nõ esse pervium.

Fœtus vero humanus [illegible] per [illegible] in vesica [illegible] *Aquapendens* [illegible] cuncas in fœtu otiosa est. nullus musca [illegible] tam diverso modo utitur natura in loc[illegible] cerne[illegible] in homine & al[illegible] embryo [illegible] 3. differentiam [illegible] & [illegible] tunica, qua carent humani fœtus.

Vardus quem [illegible] *Mœbius* [illegible] [illegible] apereat & [illegible] dus [illegible] cum non [illegible] semper [illegible] repertur 2. [illegible] 3. Urin[illegible] quoties [illegible] non obtinet quamdiu [illegible] & [illegible] 4. Posthac fœtus forer continuum, in tanto tempore in homine

[illegible] 5 [illegible] in vesica [illegible]

[illegible] [illegible] tumor vesi[illegible] [illegible] chylo [illegible] [illegible] fecun[illegible] [illegible] horum [illegible] aetem [illegible] excoriare, [illegible] cum concussione [illegible] etiam semel advertit, cum [illegible] aquam [illegible] faciebant. [illegible] [illegible] Amnio [illegible] ligamentis, unde 4. foetus [illegible] cum chorio separetur, in [illegible] vesica conservatur.

[illegible] fere omnes volucre per Ura[illegible] inter amnion & allantoidem, ut [illegible] non fit ab homine, verum sola [illegible]. Nam percolari non potest sine [illegible] & par in adultis ratio foret. [illegible] tenuissimum, nec quidquam [illegible] in foetu quam adulto. At[illegible] opinionem *Laurentius* ex *Galeno* acriter defen[illegible] quotidie, quum urinae suppres[illegible] [illegible] eam emiserunt.

Error Laurenti[illegible]

[illegible] praeter naturam fieri, uti & nota est [illegible] verum ambo causam in hydropicis [illegible] [illegible] causis. Et fate[illegible] ipse *Laurentius*, omnia quatuor vasa umbilicalia dege[illegible] [illegible]. Et recte; Nam [illegible] Quo modo [illegible] potuerunt. Ita [illegible] [illegible] in *Anna* [illegible] [illegible] perpendebat, [illegible] infra umbilicum excoriatam, [illegible] velit [illegible] guttatim urinam exsudasse [illegible] *Hommorus* [illegible] exemplum apud [illegible] habet *Fer*[illegible] Non per [illegible], sed arteriarum aliquam [illegible] *Laudanus* sustinet. At recte [illegible] praeter naturae ordinem, & in [illegible] [illegible] etiam absente vesicâ & pe[illegible] [illegible] excretam, [illegible] vidi.

A[illegible] umbilicalium in utero produ[illegible] [illegible] posteriori parte summa inferuntur [illegible] a *Varolio* [illegible] & *R*[illegible] *dorsales* vocatae, quae obliterantur iactis [illegible], de quibus *Abenfina* explicat *Riolan*-

[illegible] umbilicales arterias, [illegible] venam, & U[illegible] *funiculo* [illegible] [illegible] fere quatuor [illegible] [illegible] observavi, quod notavit *Adrianus* [illegible], & [illegible] *agens*. Duo [illegible] visi [illegible] & [illegible] quamplurimis [illegible] [illegible] creduntur [illegible] [illegible] [illegible] transierunt, quia [illegible] [illegible] solidiorem cibum [illegible] abdomen. [illegible] vestigia umbilicalis [illegible] triplices, qualem in canibus & felibus *Aquapendens* [illegible] [illegible] Leone [illegible] [illegible] [illegible] *Lucius* [illegible] [illegible] observatum est *Cottero, Stenonio*, & *Needhamo* [illegible] vitello tandem [illegible] absumpto [illegible] [illegible] [illegible] degenerant. Figuram vide [illegible] gressus pag. 317.

ANATO

ANATOMIÆ BARTHOLINIANÆ

LIBER II.

DE MEDIA CAVITATE.

MEDIUS *Venter* THORAX dictus, aliis *venter* absolute, est totum id quod circumscribitur superiore parte à claviculis, inferiore à diaphragmate, parte antica, à sterno, postica, ab ossibus dorsi, lateralibus, à costis. *Medius venter quid?*

Pars anterior dicitur *στῆθος* & pectus; posterior, dorsum, [illegible] latera.

Antiquis verò, ut *Hippocr.* & *Aristot.* &c. totum illud à claviculis ad pudenda usque, hoc est, & medium & imum ventrem continens, nomine thoracis, comprehendunt. Itaque hac significatione *Hippocr.* rectè censuit [illegible] in Thorace locatum esse [illegible] non intelligentes, putarunt *Hippocratem* in Anatomicis ignarum fuisse. *Hippocr. Aristot.*

Figura quasi ovalis, quanquam non exactè, *Hippocrates* testudini comparat. In homine anteriore sui parte protuberans est, sed in medio sterni planior, circa latera [illegible] à sterno costarum, in dorso depressior. *Figura.*

Magnitudo in genere variat pro vario caloris gradu [illegible] ex [illegible] caloré metimur. In specie [illegible] amplior ventrem imum versus, ubi majora viscera recondit, paulatim ad colli principium angustatur. *Magnitudo.*

De *Symmetria* omnium partium thoracis post *Camillum Baldum* differit *J. S. Elsholtzius.*

Substantia ejus externa est, partim ossea, partim carnea. *Substantia.*

Non totus carneus est hic venter, [illegible] ut in imo [illegible] Ne [illegible] generaretur, & [illegible].

Nec totus tamen osseus, quia partes continet, quae moveri debent, ut cor & pulmones, & eandem ob causam [illegible] ossibus esse non debuit, quemadmodum [illegible] calvaria, [illegible] quod scribit *Cardanus* de [illegible] pag. 458. [illegible] os unum perpetuum à jugulo ad ilia, costarum loco inventum.

Ex pa[illegible] tamen videas, ad [illegible] [illegible] tiam. N[illegible]

Usus. U[illegible] est, partes [illegible] tales continere, sicut [illegible] & [illegible] [illegible] [illegible].

Ejus partes. Sunt [illegible] *continentes*, vel *contenta*. Et [illegible] *communes*, vel [illegible].

Communes. Communes [illegible], quæ [illegible] ventre. [illegible] tamen hoc loco notan[illegible].

Usus pinguedinis sub axillis. Cutis medij ventris [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] & [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] alimenta recipientia, pectus [illegible] [illegible] [illegible] *de cordatio*-[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] lantur.

Cur in thorace pinguedo pauca? P[illegible] *pinguedo* [illegible] thorace, si [illegible] non [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] potestur, & in [illegible] [illegible] [illegible] [illegible] pinguedinis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] pinguedo [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].

Partes propriæ. [illegible] *propriæ* [illegible], [illegible], [illegible], & [illegible] *mammæ* [illegible] [illegible], *diaphragma, pectus med[illegible]* [illegible].

Contenta sunt viscera & vasa. Viscera [illegible] *pericardio, pulmo*, & *trachea* [illegible] [illegible] [illegible] *rami venæ cavæ & arteriæ magnæ* [illegible] [illegible] *lacteus thoracicus, lymphatici rami*, & *nervi varij*.

CAP. I.

DE MAMMIS.

OB hinc Anatomico mammas omnium primas in tho-[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].

Homini cur in pectore sint mammæ. [illegible] [illegible] [illegible] [illegible] pectori [illegible] [illegible] adducentem. 1. Ob cordis vicinitatem [illegible] 2. Ob venustatem. 3. Ob commoditatem [illegible] [illegible] [illegible] non [illegible] [illegible] quæat more bruto-rum [illegible] [illegible] comprehensus, admotus admovea-tur. In [illegible] [illegible] genere ubera [illegible] pectore [illegible] Simiæ, quæ fœtus suos [illegible]. Idem de Elephanto [illegible]

rat *Laurentius*, & ave Vesper [illegible] *Pr[illegible]* Cerceanon-
bu [illegible] eodem loci habent, lacte [illegible] nobis
ex Norvvegia balena dedit. Cur hom[illegible]
[illegible] Rabbini, teste *Buxtorfio* [illegible]
[illegible] pudenda matris videat, a[illegible] loco [illegible].

Numero duæ tantum non ob gemellos; sed ut [illegible] Numerus.
[illegible] Varro [illegible]
[illegible] quot mammas habe[illegible] *Joh. [illegible]* in qua-
da[illegible] tres observavit, sinistro [illegible] dextro
[illegible]. *[illegible]* observavit [illegible] qua-
tuor mammas, utrinque geminas, [illegible] Romæ
Jo. Faber, quæ lac omnes habebant. [illegible]
[illegible] subjectam, in [illegible]
[illegible] trigeminum fœtum enixa, [illegible] quoque
[illegible]

Magnitudo. In nuper natis [illegible] vel [illegible] Magnitudo.
mamillam pectori & apertum, deinde [illegible]
in virginibus parvulis vix præter papillas [illegible] appa-
ret, donec sensim excrescant in magnitudinem & [illegible]
[illegible] & [illegible]
[illegible] fluere incipiunt. In vetulis flaccescunt, atque [illegible]
præter papillas [illegible] apparet, [illegible]
[illegible].

M[illegible] mag[illegible], & in prægnantibus [illegible]
mensibus magis magisque [illegible].

In [illegible] Differentia mammarum virilium à fœmininis.
[illegible] non [illegible]
[illegible] non erat conveniens [illegible]
[illegible] grandes [illegible]
[illegible] mammas [illegible]. Fœminæ in regno Sene-
ga mammas ad ventrem usque protendentes [illegible] ve-
[illegible] a tergo reflectendo [illegible]
[illegible] mammillare convenit,
[illegible] fascia papillaris.

Figura [illegible] est [illegible] In Figura.
[illegible]

Dividitur mãma in *papillam* & *mãmillam* ipsam. In me- Ejus partes.
dio enim mammillæ [illegible] sub [illegible] Scolus papillarum unde.
[illegible] & [illegible] pondus
[illegible] ex [illegible] &
Nam [illegible] sensum habet, cum quasi [illegible]
[illegible] arteriarum & venarum fines desinunt, quod
ex [illegible] apparet, & rubicundo colore, sangui-
nis per arterias delati certo indicio, ob quarum concur-

 sum

f[illegible] cancros [illegible] annos circa papillas [illegible] fos [illegible]cant Chirurg[illegible].

Rimam, [illegible] com[illegible] cum [illegible] cedit, fe[illegible] ex [illegible] habet. [illegible] tis [illegible] vetulis tantum [illegible] ex cute con[illegible] aut complicata oritur papilla.

Sursum si papillæ sint conversæ, mas gestatur, si deorsum, [illegible] *Hippocrates* [illegible] puerperarum needum stabilivit.

Numero utrinque una. *Hollerius* [illegible] mamma lac reddentem vidit.

Colore [illegible] lactantibus [illegible] in [illegible] ex [illegible] in effœtis nigros.

Circulum habet circum[illegible] *areolam* vocant, in virginibus pallidum, & [illegible], in prægnantibus & [illegible] [illegible] vetulis n[illegible].

Perfora[illegible] [illegible] foraminul[illegible] plurimis [illegible] [illegible] exitum [illegible].

Usus [illegible] vel [illegible] [illegible] libentius cum [illegible] infantibus mammam præbeant.

Mammilla. MAMMILLA [illegible] constat ex membrana, vasis, glandulis, vel potius glandulosis corporibus [illegible] inter [illegible] mammas præcipue continuatis, inter membranam & cutem glandulæ & [illegible] locantur.

Membrana [illegible] glandulosam substantiam, quam [illegible] annectit musculis.

Glandulæ [illegible] In virginibus [illegible] in vetulis [illegible] abs[illegible], in prægnantibus & lactantibus [illegible] [illegible] magna [illegible] [illegible] vasorum [illegible] inter [illegible] corpus glandul[illegible] [illegible] [illegible] schirrosis [illegible] videmus.

Usus est [illegible] in lac convertere, vel lac ex sanguine [illegible] calo[illegible] [illegible] [illegible] [illegible] deat, & ad lac [illegible] [illegible]untur.

Vasa [illegible] [illegible] al[illegible] cutaneas & externas [illegible] thoracicas dictas superiores, quæ in [illegible] &

[illegible] sæpe livent: alias [illegible], longo itinere factas quo diutius elaboretur sanguis [illegible] venas mammarias, quæ descendunt [illegible] trunco venæ axillaris sub osse pectoris [illegible] mammas [illegible]. His obviam veniunt [illegible] ascendentes per rectos musculos, de quibus supra [illegible] cum utero consensum habent [illegible] sanguis non amplius ad uterum fertur ad mammas [illegible], & in lac vertitur. Hinc etiam lactantes [illegible] menstruum fluxum agnoscunt. Hinc [illegible] quando [illegible] sanguis exit per mammas, immo [illegible] est menstrua fluxisse per mammas, & lac per uterum, quod tamen rarius fit.

Vena mammaria.

Cur lac post natum infantem generetur?

S[illegible] per *venas* ma[illegible] quæcunque sit, non potest ad mammas [illegible] ex *circulatione* [illegible]. Venæ mammariæ [illegible] & generatione lactis [illegible] non [illegible] Epigastricæ, quam [illegible] ex utero, pro pacto [illegible]. In [illegible] venas certe observare non potui. Notat quoque *Highmorus* non conjungi venas cum venis, sed arterias mammarias descendentes cum venis Epigastricis [illegible], & arterias Epigastricas ascendentes cum venis mammariis descendentibus: quod negat *Blasius*.

Arteria ven[illegible] a trunco [illegible] E[illegible] [illegible] Epigastricis [illegible] mammarius. [illegible] & [illegible] cancerosis tumoribus [illegible] mammas [illegible] ad mortis [illegible] exempla meminimus. Hinc vero videtur similibus [illegible] pro lactis generatione ad mammas ferri, [illegible] non ita illæ sunt utiles. Hinc lactantibus noxæ graves à [illegible] contra ut lac [illegible] sanguinem ad mammas provocant, fricatio mammarum & alia.

Arteria.

Materiam autem lactis duplicem ex *Hippocrate* [illegible] *Prosper Martianus* & *Petrus Castellus*. [illegible] & chylum. *Copiosam* materiam ex cibis & potibus nondum concoctis in ventriculo, ex[illegible] parum [illegible] & post [illegible] *Exiguam* alteram a [illegible] ascendente, quæ *agentis* potius ob calorem suum, quam *materiæ* habent rationem.

Materia lactis.

Sanguinem [illegible] materiam non esse [illegible]

[illegible] *Hippocrat.* [illegible]

[illegible] tur. 3. Ubi mulier lac dare cessat, incideret in [illegible]

[illegible]

mammas collectus fa[illegible] [illegible] duc[illegible] 5. *Aphor.* 40.

Sen. de ventriculo chemico. A [illegible]

[illegible] *Aristotele* [illegible]

[illegible]

Refutatur hæc opinio. [illegible]

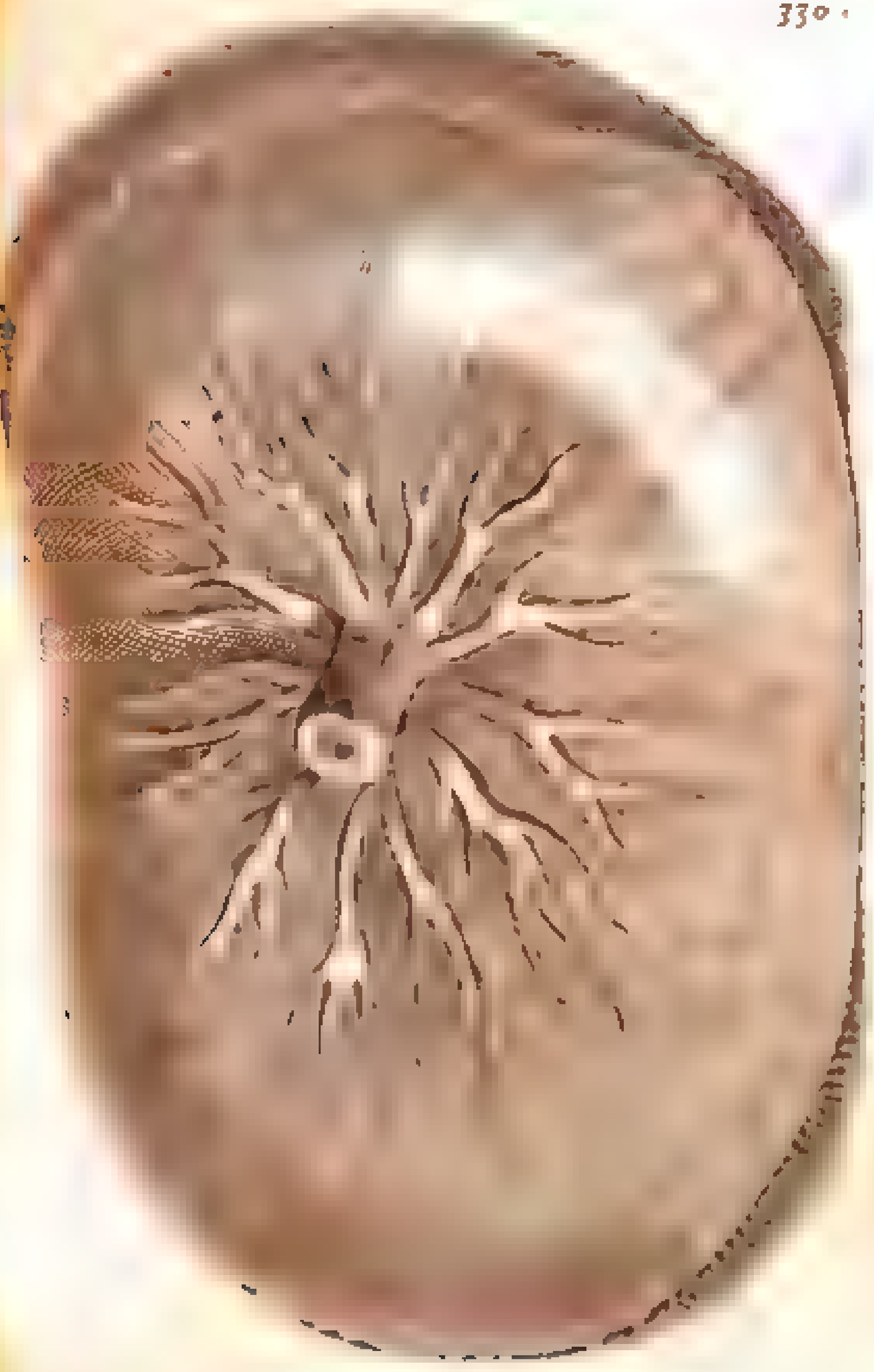
[illegible]

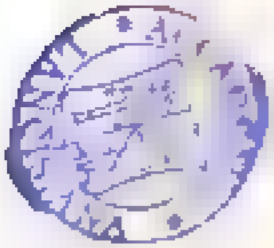
[illegible] fuit [illegible] nulum naturam, alioquin nul- [illegible] us folis fatetur in- hiat. Fateor lacteus metastasin humorum per incognitas vias motu naturam [illegible] coactam, & praeter [illegible] quam [illegible] con[illegible] & ordina[illegible] 2. Mammae ex- [illegible] non [illegible] lac, quam [illegible] 3. Nutrices [illegible], post potum [illegible] ex [illegible] & [illegible] quadam etiã [illegible] Thorace exhibitis [illegible] 4. [illegible] cibo male [illegible] Ex utero [illegible] prodeunt [illegible] [illegible] lactis ex papillis [illegible] *Aphorismum* [illegible] *Quibus menstrua de cernunt* [illegible] post foetum [illegible] post [illegible] ante decimum [illegible] [illegible] nec [illegible] contra [illegible] mutat, ex observatione *Vasae* mutant autem plene [illegible] [illegible] sanguinem [illegible] Advertunt quoque [illegible] nostrae post [illegible] alimentis [illegible] 8. Omni alimento [illegible] perfectam sanguinem [illegible] [illegible] *Hagenadius.* 9. Saepe [illegible] sanguis, [illegible] non [illegible] Muli [illegible] *Aze-* [illegible] [illegible] sanguinem [illegible]

Et fol- vuntur Matria- [illegible] [illegible]: [illegible] invenit [illegible] [illegible] argumentorum [illegible] Notandum [illegible] a nobis, [illegible] copiosius [illegible] alimento & potu [illegible] concedendo, [illegible] 3. Non [illegible] per uterinas [illegible] tantum, [illegible] venas ad [illegible] 4. [illegible] quam primus [illegible] [illegible] Ratio quoque, [illegible] 5. Mulieres [illegible] phetum, si [illegible] mammas, certis remediis reprimuntur lac,

[illegible] ... quod de sanguine in [illegible] ... [illegible]

Lacteæ thoracicæ [illegible] ... [illegible] vel per ramos [illegible] ... [illegible] ex [illegible] ... Sed [illegible] ... nec in [illegible] hominibus, nec brutis, [illegible] ... differre cogimur [illegible] ... [illegible] vel certe [illegible] ... [illegible] tamen [illegible] ... [illegible] pleno cursu extra abdomen ad ubera [illegible] ... *Jo. Th. Schenckius* [illegible] ... ex [illegible] ... [illegible] canali [illegible] ... versus axillam inter thoracis musculos [illegible] ... In eundem Montpeli[illegible] ... *canaliculum* [illegible] ... [illegible] lacte [illegible] ... quoties [illegible] ... [illegible] *Ant. E[illegible]* ... [illegible]





quot lacteos, ac tandem canalem communem constituerent, [illegible] ex papilla ex[illegible] sugendam præberent. 5. In [illegible] Amst[illegible] Anni 1665. in cane [illegible], [illegible] compressas [illegible] vas [forte lymphaticum] [illegible] venâ & arteria [illegible] An ramus lacteus, vel tubulus lacteus fuerit, non explicant.

Lacteas [illegible] per lacteas ex mesenterio [illegible] asserunt ad mammas, vel cum sanguine per thoracicas arterias [illegible] & [illegible] glandulis mammarum secernitur. [illegible] probant *Marcianus*, *Entius*, *Guiffartus* vas [illegible], & *Rhonchius*, *Perquetus*, *Holmannus*, *Everardus* [illegible] [illegible] *Fr. Maria Florentinus* Hoc [illegible], donec integritas alia via [illegible] sanguine chylum continens [illegible] probatum, & [illegible] Venæ [illegible] occurrit. 2. Lac [illegible] chylus. 3. Mammarum, [illegible] officium in separatione humorum [illegible] exhibet. 4. *Needham* experimento probat præter lymphatica non esse. Constricto enim [illegible] chylo, [illegible] vel lactante post pastum [illegible] [illegible], pressoque ex [illegible] receptaculo, neque aut vas [illegible] sive mammas, sive hepar aliorsum [illegible] receptaculum [illegible] omnino depleri comperit.

Succum peculiarem è nervis thoracicis profectum, chylo [illegible] addit *Whartonus*, quia [illegible] nervi lactationis tempore majores cernuntur, & [illegible] ac deficit [illegible], quia hic succus à mammis divertitur. Sed sufficit unus chylus. *Hujus* [illegible] quod corrumpatur alimentum primum nutricis, ex quo chyl[illegible] corruptio. *Illius*, quia incalescunt ma[illegible] pueri lac, quanquam nervorum succus [illegible]. Si lactationis tempore majores nervi deprehendantur [illegible] est, proveniat hoc propter continuum [illegible] advertente *Barbato* qui [illegible] & in lac [illegible]. Recte [illegible] lac chylum [illegible]. Hunc *Mauriplius* per vasa ad pora in glandulis mammarum ex [illegible] problematicè proponit, auctoritate *Hippocratis*, [illegible] a ventre [illegible]. Quæ de pinguedine chylo [illegible]. Serum etiam separatur, sed ut recurrat [illegible], per

Lymphatica vasa, quæ copiosa hic occurrunt. In vacca- *Lymphatica.*

rum

rum uberius conspicua esse & frequentia *Wharronus* vidit, [illegible] pars [illegible] non [illegible] [illegible] parenchymati [illegible] memoramus [illegible]. A parenchymate tamen [illegible] fere in [illegible] & [illegible] per lymphæductus [illegible]

Nervi. [illegible] ex nervis thoracis, præcipue quinto, [illegible] [illegible], & in papillam desinunt.

Tubuli. Præter hæc vasa [illegible] & mamma *tubulos* [illegible] [illegible] parte tota [illegible] [illegible] [illegible] candidæ, videant oculatiores. [illegible] conservando lacti, [illegible] tempore [illegible] [illegible] lactis [illegible]

Tubuli [illegible] Papillam *tubuli lactei* [illegible] ramos [illegible] desinunt [illegible] glandulæ [illegible] venæ [illegible] ex [illegible] circa media [illegible] emergant, & ex [illegible] fere circa media [illegible] per venæ ramus ex thoracica ingrediatur, sed remoto [illegible] copiosius apparent vasa [illegible] ex thoracica.

Usus mammarum. *Usus.* I. Generalis in fœminis & viris est, ut sint cordis propugnacula: hinc [illegible] frigidior fuis majores mammas [illegible] multis fœminis vero dedit [illegible] mammas [illegible] [illegible], teste *Hippocrate*. Nec obstat musculos [illegible] [illegible] quod [illegible] [illegible] objicit *Riolanus*. [illegible] partes nobiliores magis [illegible] tutela, [illegible] [illegible], ut oculi supercilius, cor aqua in pericardio, &c.

II. In mulieribus est lactis [illegible], seu segregatio [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. Quæ causa est [illegible] [illegible] [illegible] [illegible] [illegible] quam [illegible]

Efficiens lactis causa. *Efficiens* autem lactis causa non est *uterus*, [illegible] [illegible] [illegible] [illegible] [illegible] mammæ impertiatur, quod careat

[illegible] *vena* [illegible] communicata, nam quod [illegible] *Paulo* [illegible] [illegible] fuit, vel serosus humor effluxit, qualem [illegible] & [illegible] vel denique excitatum lactearum thoracicarum [illegible] liquor [illegible] serosus [illegible] *Lact. Thor.* & *Spicil. Lymph.* explic[illegible] [illegible] glan[illegible] mammarum, [illegible] in corpore. Efficit cum hanc coct[illegible] [illegible] proprietate, [illegible] temperamenti [illegible]. [illegible] *A. [illegible]* [illegible] lac [illegible] quod [illegible] mammis [illegible] à [illegible]

[illegible] & mulieribus non [illegible] lac generari posse, [illegible] *Ioachimi Camerarii* [illegible] *P. Castelli* de [illegible] *Al. Benedicti* [illegible] Bra[illegible] In *Scania* [illegible] propter lacteas [illegible], accula [illegible] proprias esse testimonio [illegible] comprobabat. Prodeuntes [illegible] lacteum ex papillis pro[illegible]. Exempla confirmat auctoritas *Cat. 5. Apa. 59* [illegible] praegnantes nec [illegible] [illegible] & [illegible] chyloque sanguine [illegible] & accedat suppressio menstruorum [illegible] ad [illegible] Imo in viris carnosioribus [illegible] lacteus & [illegible] lac ge[illegible] apparet [illegible] tactu & [illegible] exempla testantur. *Aristoteles* [illegible] tantum la[illegible] [illegible] *Matthiolus* in [illegible] lac acce[illegible] [illegible] *Abenzoar* [illegible] tantum [illegible] *Cardanus* [illegible] ad [illegible] [illegible] Anglia hospitem habuit *Io[illegible]* & [illegible] novit [illegible], qui [illegible] [illegible] non posset con[illegible]

Lac generari etiã potest in virginibus, viris, fœminis nõ gravidis, &c.

[illegible]

[illegible] suo lacte prolem propriam al[illegible] [illegible] *Vesalius* [illegible] [illegible] lac [illegible] *Benedictus* [illegible] [illegible] *Antonius* [illegible], *Vesalius*, *M. Donatus*, *Aquapendens*, *H. Eugenius* [illegible] de puero [illegible] & *Cardanus* vidit virum, triginta quatuor annorum, [illegible] tantum [illegible] produxit, ut ad [illegible] sufficeret. In [illegible] narrant, [illegible] copia [illegible]. Verum autem esse lac, quod ex [illegible] subjicet, quia [illegible].

III. A [illegible] mammæ [illegible] faciunt, & [illegible].

IV. Ad excrementitium humorem excipiendum. Unde [illegible] morbos [illegible] habens, in principes partes [illegible]. Quod periculum *Amazonas* vehementer [illegible] declinasse. Cum cancro [illegible], sed ob hæmorrhagiam operatio periculosa, [illegible] tamen bis non ita pridem [illegible], [illegible] præfert *Alsiorus* Sal Alkali fixum & [illegible] aqua [illegible].

CAP. II.

DE MUSCULIS INTERCOSTALIBUS.

MUsculi varij in thorace occurrentes Libro [illegible] explicabuntur, ob [illegible]. INTERCOSTALES autem [illegible], quia costis interjacent, hoc loco exponi debent.

Numerus. Sunt autem [illegible], numero quadraginta quatuor, utrinque viginti duo, Undecim externi, & [illegible] interni. Nam [illegible] costas, bini musculi [illegible] [illegible] autem utrinque costarum [illegible].

Error aliorum. [illegible] musculos, inter partes [illegible] costarum [illegible] latitantes [illegible] partes [illegible].

Externi [illegible] a superiorum costarum [illegible] bus partibus, & oblique versus posteriora descendentes, [illegible] in inferiorum partes superiores, *Interni* [illegible] contra.

Exter

Externi dicuntur [illegible] : *Interni* & costarum & [illegible] vertebrarum processibus, [illegible] musculos quoque nec [illegible] scripsit *Spigelius*, in costarum interno [illegible] superius latus descendunt, vocatque *costarum levatores*, qui [illegible] diversi sunt a dicta costali[illegible], tendines situm habent diversum, & angulos cum costis constituunt diversos, usum tamen eundem habere.

Fibras obliquas habent, & se mutuo *χιασμῷ* intersecant, instar literæ X. quia alias breves sunt musculi, ob intervallorum parvitatem. Hinc in hydropicis [illegible] apertione, facienda sectio recta secundum fibrarum ductum, non transversa.

Vasa accipiunt varia. *Venas* ab Azygo & intercostali superiore. *Arterias* ab [illegible] utraque. *Nervos* a [illegible] conjunctos illis, qui e medulla dorsi prodeunt.

Usus est, thoracem dilatare & contrahere. Externi [illegible] tractum [illegible] costas attollendo, & thoracem constringendo, faciuntque ad expirationem. Interni costas [illegible], & thoracem amplificando ad exspirationem faciant. *Galenus* contra externi inspirationi inserviant, interni exspirationi, cui favet *Veslingius*. *Usus*.

Alii, ut *Vesalius* statuunt, musculos externos, costas inferiores [illegible] pellere, internos vero superiores deorsum [illegible], ut [illegible] thorace mutuum [illegible]. Sed [illegible] potius, quia [illegible] internos, externos [illegible] agere.

Fallopius, *Arantius*, *Riolanus* pro [illegible] costarum ligamenta [illegible] habent, [illegible], quia costæ moveri per se non possunt [illegible] a musculis thoracis. Sed [illegible] thoracicis [illegible] costæ moveantur notum [illegible], a diaphragmate quoque impulsæ. Nunquam [illegible] ligamenta [illegible] sunt. [illegible] possunt hi costæ & [illegible] moveri, quod omnibus aliis musculis commune. Motus tamen costarum obscurior, quia una tantum parte articulatur & [illegible] angust[illegible]. At [illegible] compensat.

CAP. III.

DE DIAPHRAGMATE

DIAPHRAGMA [illegible] dictum, aliis præcordia [illegible] cordi prætendatur, usitate *φρένες*, quia [illegible] pictus & sensus perturbatur, ob consensum cum [illegible] *Diaphragma quid.*

cerebro, [illegible] inflammatione [illegible]
Con[illegible] [illegible] [illegible]
[illegible]
[illegible]
[illegible] Cæterum [illegible]
[illegible]
[illegible] particeps, & [illegible]
[illegible] & cor[illegible] [illegible] &c. [illegible]
[illegible] S[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] A[illegible]
[illegible] peculiarem content[illegible]
Septum tran[s]versum al[iqui] vocant, quia [illegible]
[illegible]
[illegible] *D[iaphragma]*, [illegible]
[illegible]
[illegible] figuram & [illegible]

Situs. *Situs* [illegible] est transversus, & [illegible] clinat, obliquus.

Figura. *Figura* [illegible] est [illegible], appendicibus [illegible] ex-ceptis.

Nume-rus. *Numero* unus est hic musculus, [illegible] quæ latera [illegible] [illegible] *Merÿ*[illegible]

Magni-tudo. *Magnitudo* [illegible] [illegible] quæ [illegible] inter vertebras [illegible] & [illegible]. H[illegible] Cetacea, quia longas [illegible] habent cost[illegible] quam nos, ampl[illegible] possident diaphragma, [illegible] ad ex-tremitates costarum [illegible]. Nam

Caput & posit. in dia-phrag-mate. *Ortus* [illegible] a lumborum [illegible] per duas [illegible]
[illegible]
[illegible] & [illegible]
[illegible]
[illegible] & [illegible]
[illegible] costi[illegible]
[illegible]
in [illegible], tam a lumbis, quam cost[illegible]
[illegible] Nam cum ad undecimam ver-

tebram

[illegible]

[illegible] circa o[illegible] pes alter circumducitur, dum alter circumfertur. [illegible]

[illegible] la musculorum finis est, non caput.

Substantia est carnosa, in medio nervosa & membrano- *Substantia.*
[illegible] *Secundarius* [illegible] *Rotundum,* [illegible]
[illegible] dum, nec pulsum edit.

[illegible]

Membrana vestitur [illegible] ad robur. Superiore à pleura, [illegible] pulmonum per fibrillas, inferiore à peritonaeo. Et propriam quoque habet substantiam, antea descriptam. *Foramina.*

Foramina habet minima & magna. Minima sunt po[illegible]

FIGURÆ EXPLICATIO

Pectoris partes externas proprias, cum Diaphragmate situs in corpore situm delineat.

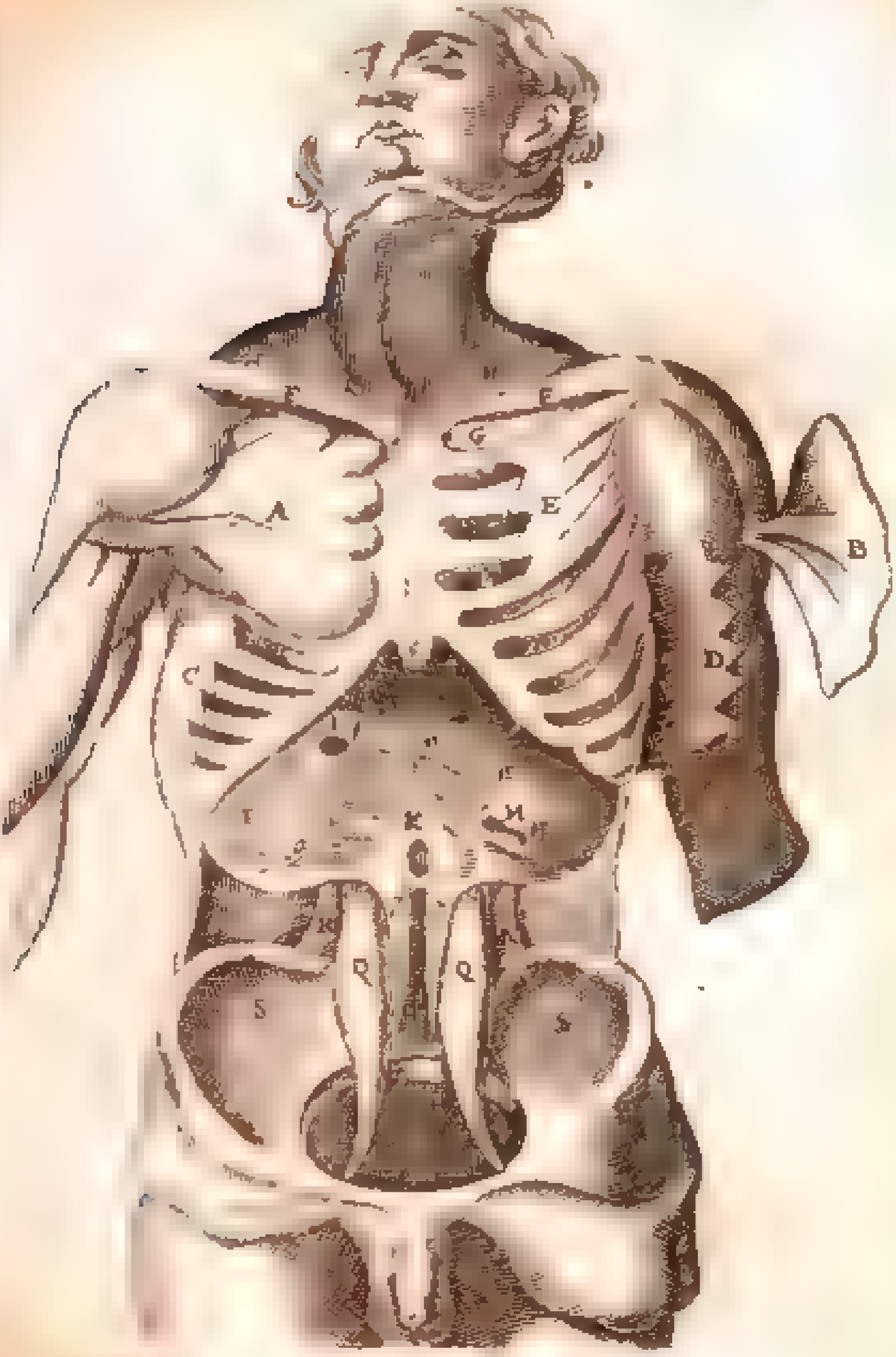
A. *Musculus pectoralis in situ.*
B. *Idem extra situm.*
C. *Serratus major anticus in situ ex parte conspicuus.*
D. *Idem e situ remotus.*
E. *Serratus anticus minor in situ.*
F F. *Clavicula.*
G. *Musculus subclavius.*
H H H. *Musculi intercostales.*
I I I. *Diaphragma.*
K. *Arteria magnæ descendentis pars.*
L. *Foramen pro vena cava descendente.*
M. *Foramen pro gula diaphragma transeunte.*
n n. *Vena phrenica.*
o o. *Arteria phrenica.*
P P. *Diaphragmatis appendices.*
Q Q. *Musculi psoæ.*
R R. *Musculi lumborum quadrati.*
S S. *Interna cavitas ossis ilium.*

per quos ab inferioribus vapores elevantur. Dilatatio [illegible] motu diaphragmatis perpetuo, non ab odoribus & fumis, ut credit *Helmontius*, aliis [illegible] [illegible] [illegible] vapores imperati [illegible] [illegible], aut extra [illegible] [illegible]. Inter majora est unum [illegible] [illegible] [illegible] pro [illegible] [illegible] [illegible] [illegible] & [illegible] posterius, pro [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] & [illegible] [illegible]. Hæc [illegible] [illegible] ex [illegible] [illegible] [illegible], per vasa sua circulanto [illegible] [illegible]. Hinc [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

Vasa. [illegible] & [illegible] [illegible] [illegible] & [illegible] [illegible] [illegible] [illegible] cava [illegible]

Nervi per totam ejus substantiam [illegible] [illegible]

[illegible]


A
B
C
D
E
F
F
G
E
K
M
Q
Q
S
S

[illegible] quidam & [illegible] à 4. 5. & 6. nervorum pari vertebrarum cerv[illegible]

[illegible] C. Hofman [illegible]

[illegible]

Sardonium [illegible] Galenus [illegible]

[illegible]

[illegible]

[illegible] aliis animalibus, observavi.

[illegible]

[illegible] autē plicaturam maximè circa appendic-

esse & in violenta [illegible] ratione [illegible] pu[illegible]que hac [illegible] phragma [illegible] amplius, & thoracem amp[illegible] tione costarum dilatare.

M[illegible] modo exponit *Pecquetus*. Pulmo[illegible] enim in *inspiratione* descendentes, medietatis unius, qua diaphragma dorso [illegible] deorsum ad [illegible] [illegible] mediatem prope sternum & [illegible] [illegible] nervosas [illegible] fibras explicare, quam [illegible] [illegible] carneos, una cum anterio[illegible] pecto[illegible] [illegible] diaphragmatis [illegible] partes [illegible] [illegible] In *Expiratione* [illegible] diaphragma[illegible] anteriora [illegible] sternis [illegible] & [illegible] posteriora, atque tum [illegible] [illegible] & nervosis relaxi[illegible] [illegible].

[illegible] *Riolanus* motiones diaphragmatis [illegible] & naturali respiratione fieri quasi fluxu & refluxu, [illegible] partes cum levi [illegible] [illegible] naturali.

Accuratius hæc demonstrans *Stenonius*, in respiratione diaphragmatis non [illegible] contracti [illegible] quam [illegible] omnium, quas a vertebris ad [illegible] placet concipere, [illegible], & cum [illegible] [illegible] & [illegible] diaphragma, quam [illegible] partem curvatam esse, convexa thoracem, concava abdomen [illegible]. [illegible] convexa, eo [illegible] abdomen, [illegible] thoracem; quo [illegible] magis, eo [illegible] convexum diaphragmatis superficiem, eo thoracem ampliorem, & [illegible] abdomen, & [illegible] thoracis fundum in inspiratione [illegible] in exspiratione adscendere contra *Arantium*.

II. A[illegible] abdominis mu[illegible] in compressione, ad exclusionem excrementorum & fœtus. Nam a superiore parte intestina deorsum trudit. Hinc observate *Platero* in [illegible] prodest sternutatio & tussis, quia deorsum compellitur diaphragma & coarctatis intestinis fæces [illegible] [illegible] diaphragmatis constrictum fæces & urina [illegible] [illegible] animalia & [illegible] sponte excernuntur.

[illegible] dilatationem, compressio [illegible] ex *Pecqueto* [illegible] diaphragmatis [illegible] Receptaculo [illegible] Receptaculum, &, quam [illegible] [illegible]. Observatum præterea [illegible] [illegible] [illegible]

III. [illegible]

III. [illegible] com vitalibus, ne ab ignobilioribus par- [illegible] vapores, ad nobiliores partes, ut cor, &c. [illegible]

IV. *Hippocrates*, [illegible] torum, [illegible] Hinc [illegible] dete- [illegible] thorace ad abdomen [illegible] *Hippo- crates*, [illegible] vitam capiant.

V. [illegible] *naturalem* perficere autumant, [illegible] non dependeat a nostro arbitrio, moveri [illegible] in Apo- [illegible] Sed ceterum *Praeternatu- ralis* [illegible] *cessat* [illegible] tamen [illegible] ratione [illegible] *absolute* [illegible] & [illegible] Morte [illegible] *Apoplexia* cessat, sola [illegible] ratione [illegible] In [illegible] autem cum thoracicis [illegible] etiam diaphragma moveri videmus.

CAP. IV.

DE PLEURA, MEDIASTINO ET THYMO.

Pleura [illegible] *Pleura quid? Etym. origo.* [illegible] thorac [illegible] *Hippocrate* [illegible] secunda [illegible] tamen [illegible] demonstr [illegible] *[illegible]*, *Caelius*, *Placentin*, *Zecchius*, *Vesl[illegible]*, *[illegible]*, per [illegible] & [illegible] quod nervos intercost[illegible] tegant [illegible] Ideo in dorso [illegible] adhaeret, [illegible] adhaeret. *C. Hofmannus* [illegible] potu [illegible] *Consi- [illegible]* [illegible] *An* [illegible] *Hofm.* & *Collegio Anatomico* [illegible] morbis [illegible] *[illegible]*, *Placentin* [illegible] ut vix conspiciatur.

Duplex est ubique, ut inter dup[illegible] [illegible]

[illegible]

[illegible] alligetur.

[illegible] majora sunt.

[illegible]

Foramina. [illegible] tiens, gulæ, & nervis sexti paris.

[illegible]

Usus. [illegible] municat) & interseptentem membranam, seu

MEDIASTINUM [illegible]

[illegible]

homi

[illegible] & membranis, tam mollibus & cetaceis, [illegible] & sternum etiam [illegible] ita mem- [illegible], quas [illegible] A dorso [illegible] Riolano [illegible] membranas & [illegible] perpetuum [illegible] In hac cavitate [illegible] & [illegible] cavitas, & [illegible] vero amplior cavitas est, & in anteriore parte cavitatis cor & vena cava collocata [illegible] Columbo & Hofmanno quod [illegible] negat Riolanus.

Tenuior [illegible] substantia quam pleura, & [illegible] Substantia.

Vasa habet venas & arterias [illegible] Vasa.

[illegible]

[illegible] Rhabeck. [illegible] lacteum thoracicum ductum amandent.

I. [illegible] Mediastini [illegible] parte pul- [illegible] Usus.

II. [illegible] ad partem allidat.

III. Vasa [illegible] stabilire [illegible]

IV. [illegible] pro ornamento, [illegible] passimque locis valde etiam pinguescere.

FIGURARUM EXPLICATIO.

Sternum abscissum & elevatum, tum mediastinum & pulmones, cum diaphragmate oculis subjiciuntur.

Fig. I. Ex *Vesalio*.

A A A. *Sterni, eique connexarum cartilaginum interior superficies.*

B B. *Vena & arteria mammaria sub sterno descendentes.*

C. *Glandula [illegible] sterno [illegible].*

D D D D. *Mediastini divulsi lacera.*

E E. *Intervallum inter utramque Mediastini membranam, quod [illegible] post eam a sterno [illegible].*

F. *Protuberantia Mediastini, qua cor situm est.*

G G. *Pulmones.*

H H. *Diaphragma.*

I. *Cartilago ensiformis.*

Fig. II. Ex *Veslingio*.

A. *Nervus diaphragmatis sinister.*

B. *Nervus ejusdem dexter.*

C. *Membrana diaphragmatis superior aliquantum separata.*

D. *Substantia carnosa diaphragmatis nuda.*

E. *Foramen pro gula descendente.*

F. *Foramen pro vena cava.*

G G G. *Pars membranosa sive centrum diaphragmatis.*

H H H. *Portiones seu appendices ejusdem, inter quas arteria magna descendit.*

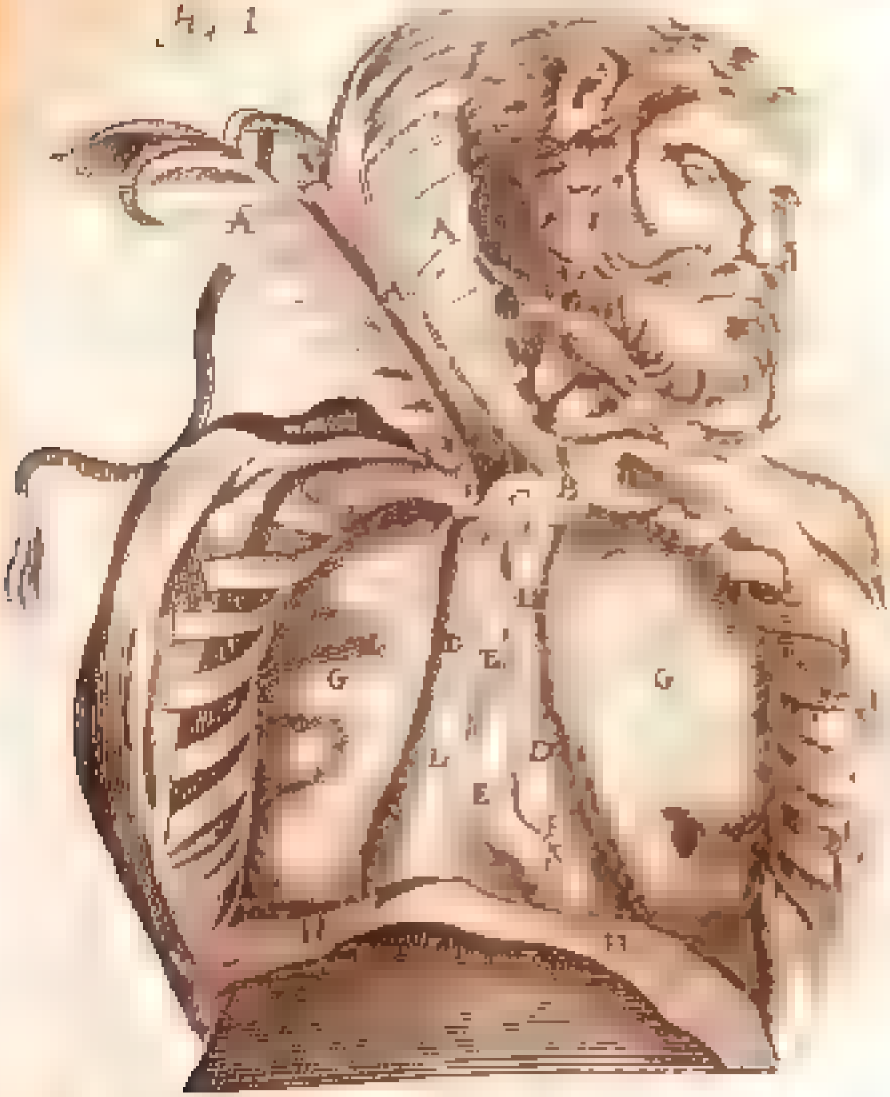
Figura III.

Co[illegible] glandulosum [illegible].

A A A. *Glandulæ laryngis conn[illegible].*

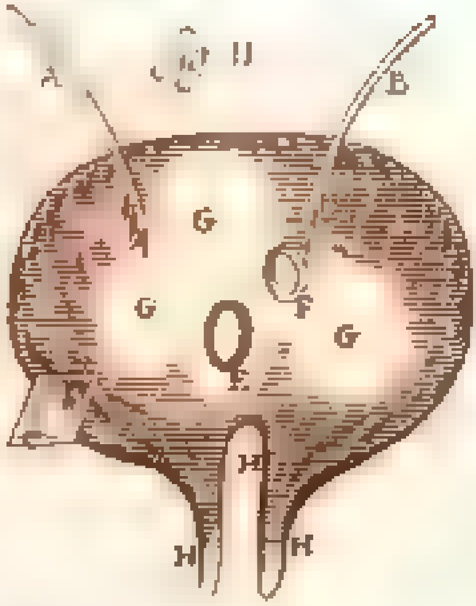
B. *Venæ jugularis portio, ex qua duo ramuli progressi per [illegible] concurrunt.*

I



III

II



Thymus quid? THYMUS [illegible] [illegible] vena cava [illegible] *Riolanus* [illegible] [illegible] exsiccatus conspicitur & con-[illegible] [illegible] *Cavitatem* [illegible] [illegible]

Eius vasa. *Vasa* [illegible] [illegible] & plexu subclavio.

Lymphatica [illegible] *VVhartonus* [illegible] [illegible] in eo repertam.

Usus. *Usus* igitur *Thymi* [illegible] ascendunt a magna venam cavam [illegible] [illegible] & scapulas proficiscentes, fulcire.

2. [illegible] & ne vasa ab ossi-[illegible]

3. [illegible]

4. [illegible]

[illegible] & [illegible] in [illegible] ovale [illegible]

5. [illegible] *Lowdani* [illegible] & [illegible] foramen ovale, hoc [illegible] excrementa cordis fuliginosa.

6. [illegible] ramo [illegible] Hinc [illegible] & [illegible] Nam & in [illegible] *Drelincurtius* [illegible] & [illegible] *Harveyus* [illegible] chylus, ut copia oneretur subclavia vena.

Cap. V.

DE PERICARDIO ET HUMORE IN EO CONTENTO.

Pericardium quid? Pericardium [illegible] involucrum, capsula, ar- [illegible] & [illegible] *pleniorem* [illegible] in [illegible] cadavere, a me [illegible]

Ortus. *Ortum* [illegible] vasa cordis [illegible] ingentibus, quae [illegible] & pericardium [illegible]

Foramina. [illegible] *foramina* habet [illegible] pro venae cavae [illegible] & [illegible] quorum [illegible]

Situs. *Situs* [illegible] quam ad dextram & [illegible]

Connexio. *Connectitur* orbiculatim [illegible] fibris, & vicinis partibus praecipue [illegible] nerveo [illegible] ab eo in canibus & [illegible] animalibus omnibus.

Super

Superficies. *Superficies externa* est fibrosa, *interna* [illegible], & [illegible] sine pinguedine, aut raro, quod in [illegible] vidit *Laudanus.*

Substantia. *Substantia* crassa & dura est, tantoque pulmone [illegible] quanto [illegible]. Unde [illegible] commentus est quidam [illegible] *Brasfius.*

Vasa. *Vasa. Venas* parvas habet, [illegible] à phrenicis & supra [illegible].

Arterias nullas facile apparentes, forte quia [illegible] habere tamen certum est, quanquam [illegible] tores.

Nervos [illegible] recurrente [illegible] antequam ascendat, & [illegible] gratia, quam [illegible] bat, sive [illegible] credimus *Vesalio*, ut se contrahat, & expellat noxia in cordis tremore.

Lymphatica [illegible] huc sparguntur ex trunco ad cor descendente, ut non nihil lymphæ superfluæ ad thoracem [illegible] tant. Quo [illegible] pericardium oppleatur, magno cordis damno, recte [illegible] *Rudbeck.*

Usus. *Usus* I. Cordis esse [illegible] firmum, ne [illegible] in motu [illegible] partes [illegible]. II. [illegible] continere.

HUMOR SEROSUS vel aqueus [illegible], non tamen acris aut salsus, tepidus, [illegible] locum [illegible] similis, *Gual. Toleto* apud *Burgensem* [illegible] appellatum, saporis ingrati, unde *Galeno* [illegible] vesicæ dicitur.

An humor serosus in pericardio omnium reperiatur? Hic humor in omnibus animalibus naturaliter [illegible] tuis, tam vivis quam mortuis reperitur, imo & [illegible] patet ex sectionibus vivorum & mortuorum [illegible] men plus vel minus, [illegible] est & [illegible] [illegible] subinde [illegible], observante *Salmuth.*

Cur in mortuis copiosior? In mortuis copiosior est, quia tunc spiritus [illegible] paulatim [illegible] in aquam. [illegible] pacis & [illegible] ob caloris [illegible] [illegible].

[illegible] copia [illegible] cordis [illegible] & [illegible] [illegible]. Reperiuntur tamen [illegible] quibus [illegible] pericardio [illegible] effluxit, [illegible] pericardio, [illegible] [illegible] *Galeno* [illegible] [illegible].

Unde oriatur humor pericardii. Opinio I. *Unde oriatur* variorum [illegible] opiniones sunt.

I. [illegible] est [illegible] vasis cordis [illegible] sicut eandem palpitationem ex [illegible] humore [illegible]

vomunt

voluntque ob fervorem cordis ex [illegible] humorem aqueum [illegible] Huic affinis est N. Massa opinio, quæ ex [illegible] sanguinis venientis ab hepate ad auriculam cordis esse [illegible] Hermanus [illegible] contendit [illegible] ascenden- [illegible] motus [illegible] periculum non leve [illegible] Tremores abusiores, quibus [illegible] movetur sanguis [illegible] habere.

II. Alii [illegible] Hippocrates, volunt ex potu [illegible] penetret ex [illegible] arteria in venosam. II.

III. A materia [illegible] semineli in prima generatione, sicut à flatuosa [illegible] in auribus esse putatur. III.

IV. [illegible] vult esse por- [illegible] ab- [illegible] per venas & arterias [illegible] praeter [illegible] partem, [illegible] qua Hippocrates, & ipse habet ex- perientia. IV.

V. Ab excrementis aquosis tertiæ coctionis. V.

VI. Ex saliva delabente ex glandulis faucium in tra- chæam, inde vero in arterias & cor. VI.

VII. Ex cordis adipe, agitatione in aquam converso. VII.

VIII. Ex [illegible] portione [illegible] versa. VIII.

IX. [illegible] IX.

X. [illegible] X.

Usus I. Cor [illegible] & refrigerare, motumque [illegible] faci- liorem reddere. Unde [illegible] est, cor torretur. Quod Casimiro M[illegible] Branicour [illegible] Et juve- [illegible] Paracelsum. Hofmanus [illegible] contra- [illegible] cujus ita [illegible] solet & li- [illegible] humore [illegible] siccitate [illegible] tenacius [illegible] Calor autem cordis hu- [illegible] vatur, & affluente continuo sanguine, [illegible] in vivente corpore [illegible] : qui in senibus alioquin foret vegetior.

II. A [illegible] erectionem facere.

III. Ut cor [illegible] minus grave fiat, & in nullam [illegible]

IV. Pericardium humectare, quod ex [illegible] *Laurent.* [illegible] *lib. de Morb.* [illegible]

[illegible]

Hippocrate [illegible] aqua.

[illegible] *Laurentium*, *Actium*, *Montanum* [illegible] *Trincavellium* [illegible] *Cyprianum* [illegible] *Laurentio* [illegible] *Fabricium* [illegible]

[illegible] unoquoque die, quæ in phlegmone [illegible] exiccabatur diminuebaturque, quo sublato [illegible]

In [illegible] præsente, variolis extincto, copiosa [illegible] colore vidi, de quo alibi.

Cap. VI.

DE CORDE IN GENERE.

C[illegible] probabilissam, for-[illegible] Græcorum [illegible], nostris [illegible] *sacrum* pars princeps animalis est, qua [illegible] facit. *Ab hoc corde*, & ex [illegible] [illegible] tor, quia vitæ fons est, & [illegible] vitales elaborat, & per arterias [illegible], per to-[illegible] Exempla tamen [illegible] apud *Schenc-kium* [illegible] *Gesnerum* lib. 16. [illegible] *Galenus* [illegible] refert [illegible] corde exfecto clamasse, & [illegible] postquam cor esset avulsum, & in [illegible] vero [illegible] pronun-[illegible] *Cæsare* [illegible] [illegible] *Obsequente*. Illorum vita [illegible] sanguinis [illegible] autem [illegible] potius [illegible] *Spelmus*, [illegible] camelo [illegible] cor. [illegible] vel a [illegible] Horum [illegible] *Bartholinus* Pater, *Boylaus*, *Borrichius*.

[illegible] animal statim moritur. Patitur [illegible] *teste Gale-no* [illegible] 2. Tabem, auctore *Plinio*, [illegible] *Jordanus*, totum immode-[illegible] *Telesium*. 3. *Inflammationem*, [illegible] expe-[illegible] *Saxonia*. 4 *Ulcera* [illegible] *Trincavellius*. *Rivierius*. 5. *Tumorem* [illegible] sinistro ventriculo *Car-dinum*, ovi magnitudine [illegible] *Columna*. Tuberculum ni-grioris carnis *Benivenius*. [illegible] habent *Massa*, *Hollerius*, [illegible], *Joubertus*. Ego in bovini cordis parenchymate [illegible] abscessum ovi columbini magnitudine nuper de-[illegible] [illegible] sepultum.

In exterioribus *Gesnerus* carnis excrescentiam in basi ad unciam unam & sex drachmas. Membranas circumdans [illegible] *bovinum*.

[illegible] historiæ docent. *Parant* [illegible] Antequam sagittam [illegible] apud *Jacobum* [illegible] *Th. Viegam*, *Alexandrinum*. De cervo, [illegible] venatione [illegible] per

[illegible] *Historia* [illegible] uam consideret. *Galenus* [illegible] *Mallerus* [illegible] *Grando* [illegible] si vasa sint illæsa, quibus motus co[illegible]

Numero [illegible] *Galenus* [illegible] D. *Claudius* [illegible] *Romanus Plazzonus* [illegible]

Situs [illegible] totum corpus commo[illegible]

Motus tamen eius [illegible]

1 Quia [illegible] cordialia epithemata applicant.

2 [illegible] *Magdalena* [illegible] Regina *Maria* [illegible]

Cor quo in medio? [illegible]

Error vulgi cor esse in sinistro latere.

Cor apex cur in sinistrum inclinet?

[illegible] vero cor in medio exacte habent, sunt [illegible]

[illegible] est *Magn. cor in* [illegible] & [illegible] atque *quibus* [illegible] versos *reperia-* [illegible] quatuor. Alioquin magni- *tur?* [illegible] Frigidiores [illegible] & audaciores [illegible] *Donatus*. Item *Aristoteles* affirmat [illegible] corvo more, [illegible] habeant [illegible] *Persis* [illegible] apud *Herodotum* [illegible] [illegible] Cor eorum, qui nulla morbi violentia depascitur, quotannis pondus [illegible] drachmarum assumere, [illegible] cor [illegible] autem [illegible] annos quotannis [illegible] donec [illegible] evanescat, affirmavere.

[illegible] mucronem exit. [illegible] *Anatomi-* [illegible] *Laurentium*, [illegible] *Bauhinus* [illegible] dit *Bauhinus*. Pars suprema ob vasa ibi [illegible] latior & ro- [illegible] *basis cordis*, [illegible] vel [illegible] caudam. Ante- [illegible] magis [illegible]. In contra- [illegible] & [illegible] de quibus nos infra accuratius.

[illegible] & diaphragmate per peri- *Connexio* [illegible] per vasa [illegible]

[illegible] in foetu, [illegible] Cur [illegible] loco, & [illegible] *Cur sede* [illegible] corporis loca. [illegible] *flectat cordis* [illegible] & [illegible] sanguine etiam contenti [illegible] *apex* [illegible] exhalent.

Si tar longa [illegible] aliquem, [illegible] à basi usque la- [illegible]

 [illegible]

[illegible] *Lindanus* [illegible] *nervosas fibras* solidissime [illegible] & [illegible] deorsum cochleato prorsus ductu [illegible] ad mucronem.

In [illegible] pulmones [illegible] Sinistri [illegible] motum [illegible] *mucrone* [illegible] caro & [illegible] basi [illegible] ut [illegible] punctura [illegible] fibrarum centrum [illegible] vix æquet caput, cum non [illegible] In *basi* [illegible] pendant. Caro autem hæc [illegible] adeo commista, & compacta, ut non [illegible] los & [illegible]

Tunica. *Tunica* non [illegible] Hanc [illegible] *Lindanus* [illegible] non efficientis.

Adeps circa cordis basin [illegible] ad venas [illegible] & co [illegible] conjectura [illegible] quod [illegible] Principe [illegible] ac si cor plane abesse.

An circa cor reperiantur pinguedo? Inter [illegible] dixerunt *Aristoteles*, *Galenus* & *Avicenna* circa [illegible] partem, ut cor [illegible] pinguedinem [illegible] *Vindiciis Anatomicis*, [illegible] magis & in [illegible] *Ant. Alvarez* [illegible] potest. Qui ad candelam [illegible]

arno

[illegible] *Fabilone*, [illegible] cito tota, impe- [illegible] [illegible] [illegible] videtur. [illegible] [illegible] [illegible] [illegible] vel [illegible] exc[illegible] ventris [illegible] vel quia [illegible] multum agitatur, sicut ex [illegible] lactis agitatione butyrum extrahitur, quod *Achillinus* voluit.

Vasa. *Venam* [illegible] *coronaria* [illegible] quia in [illegible] bas[illegible] circumflectitur, aliquando gemina. Haec a cava [illegible] ventriculum dextrum, circa cujus basin ex- [illegible] ducta ab auricula dextra, & patente meatu [illegible] circumducit ad [illegible] auriculum, quam [illegible], sed in parenchyma cordis [illegible] Haec [illegible] per [illegible] cordis, & [illegible] [illegible] Valvula [illegible] in [illegible] semilunaris [illegible] dex- [illegible] ventriculum [illegible] [illegible] — *Vasa.*

Usus. [illegible] partis [illegible] [illegible] quidam, [illegible] tantum [illegible] [illegible] & cor [illegible] sanguine nutritur. *Alij* [illegible] [illegible] nutritionem de[illegible]. [illegible] [illegible] ventriculum cordis [illegible] *F[illegible]*, quod [illegible], quia [illegible] [illegible] cava, [illegible] ventriculo dextro, exterius oritur. Agnovisse [illegible] *Botallus* videtur, in cujus [illegible] *Walaeus*. [illegible] *Riolanus* non tam [illegible] [illegible] [illegible], sed [illegible] [illegible] ex illa [illegible] [illegible] a vapor[illegible] hac venas [illegible]. [illegible] venae [illegible] est [illegible] [illegible] nutritione cordis [illegible] [illegible] [illegible] [illegible] ad nutritionem parenchymatis solidioris.

Arterias duas habet coronarias a [illegible] basin imprimis [illegible] [illegible] [illegible] eadem in exortu [illegible] [illegible] valvulae [illegible] prohiberc [illegible]. Per has, quia [illegible] pulsantes, [illegible] cordis & auricularum [illegible] [illegible] *circulares*, [illegible] *Harveius*, [illegible] [illegible] ventriculo [illegible] ad arterias, ex [illegible] coronarias, ex quibus in dextrum sinum [illegible] [illegible] per pulmones [illegible].

Remanentem autem a nutritione sanguinem, non per

FIGURÆ EXPLICATIO

Cordis in corp[illegible], [illegible] [illegible] monstrat.

A. *Cor* [illegible] *pericardio* [illegible].
B. *Pulmo* [illegible]
C. [illegible]
D. D. D. [illegible]
E. [illegible] *circa* [illegible]
F. [illegible]
G. [illegible]
H. H. [illegible]
I. *Mucro cordis* [illegible].
K. K. *Nervi* [illegible] *quibus recurrentes oriuntur, qui* [illegible] *ramulos pericardio & cordi distribuunt.*
L. *Aorta* [illegible].
M. *Aorta* [illegible].
N. [illegible] *pericardii.*
O. [illegible].
P. [illegible] *par primum in* [illegible].
Q. [illegible].
R. [illegible] *arteria.*
S. *Arteria axillaris, circa cujus exortum nervus recurrens dexter incipit.*

[illegible]

O
O
K
K
H
H
A
A
B
M
N
A
F
I
C
C
D
D
D

[illegible]
Brachium [illegible], & [illegible] *Car*[illegible]
[illegible] *gue* [illegible]
[illegible]
[illegible] nervi quam pro tanto co[illegible]
circa basin fere aut externa disseminati.

Quanquam [illegible] *Car*[illegible]
[illegible]
[illegible] Nervos plures cor non hab[illegible] magnam [illegible] nervis [illegible] pro nervis [illegible]
Aristoteles [illegible], cor [illegible] nervorum. Sed [illegible]
materialiter verum esse [illegible] *formaliter* in corde tamen [illegible] nervorum [illegible]
[illegible]

Error Fallopii. [illegible] *Fallopius*, [illegible] nervorum, & [illegible] *Vesalius* [illegible]
Cor [illegible] non [illegible] malis est [illegible] cor [illegible] propter [illegible] naturalis [illegible] enim non voluntatis cor movetur & [illegible] quia [illegible] animalis [illegible]. Et *Galenus* negavit cor

An cor sit musculus? esse musculum. [illegible] Quia omnis generis [illegible] Quia musculus est motus voluntatis instrumentum. Quod si vero [illegible] cor esse musculum motus naturalis, [illegible] hanc locutionem non repugnabimus & ita verum erit [illegible] *Hippocrat*[illegible] cor esse musculum [illegible] in orbem circumactum. Musculum [illegible] quando [illegible] est [illegible] non unu[illegible] sed plures musculos ob motus diversos in se contractos. *Alii* musculum [illegible] in sua specie, ut diaphragma, quod perpetuo movetur. Rect[illegible] musculum [illegible], sed [illegible] musculus per fibras carni intextas & [illegible] ad instar musculi temporalis in masticantibus. *Hippocra-*

tes

ra valv[illegible] [illegible] vocavit non [illegible] nervorum, à [illegible] denominatio, sed carnis spissa-[illegible]. *Lindanus* ex [illegible] sententia, musculum [illegible] in actio musculi per-[illegible] contr[illegible] & laxatione, ita & cordis. *Willisius* analogiam habere cum musculis.

C[illegible] vere [illegible] musculum nuper *Stenonius* noster proba-[illegible] nova [illegible] & fibrarum fabrica. Quia [illegible] habet [illegible] musculi, arterias, venas, nervos, fibr[illegible] parenchyma. 2. Om-nes [illegible] ex [illegible] extremis utrinque ten-[illegible], quod [illegible] omnibus musculorum fibris, [illegible] villorum [illegible] est [illegible] tamen arcus in-[illegible] angulos, [illegible] cum [illegible] ventricu-l[illegible] est ratio, ut com[illegible] figuram [illegible] post [illegible] hunc modum:

Fibræ prim[illegible] concursu orifici[illegible] sinistri cum dextro, cum à b[illegible] descenderint, [illegible] sub reliquis fi-[illegible] sic sequens super fibra præcedente tam[illegible] descend[illegible] quam incurvetur, incurvata [illegible] intra priores intorsionem [illegible] Ex [illegible] sequen[illegible] hæc intelliguntur:

[illegible] cordis [illegible] a dextris [illegible] & [illegible] a sinistris [illegible] in corde [illegible] *Stenonius* [illegible] vero esse [illegible] 4. [illegible] foramen [illegible] 5. Externa [illegible] in [illegible] cordis [illegible] componunt, & [illegible] Mea [illegible] propter [illegible] [illegible] in aliis [illegible]

[illegible] probabile [illegible] motus diversitas obstat. Musculi enim cæteri ex arbitrio [illegible] At cor [illegible] non [illegible] In [illegible] varium situm habeat. [illegible] *Veru* monstrant. [illegible] in Systole & Diastole [illegible] contra [illegible] motus perficerentur. Ex [illegible] *Lindanus*, [illegible] docere [illegible] mechanic[illegible] esse in cochlea, ut minor vis ad [illegible] proportione requiratur, quam in alia [illegible] machina [illegible] *Lindano* consentiente, [illegible] inter motum cordis & musculi [illegible] a causa efficiente [illegible] motus [illegible] pro arbitrio cordis cohibere non possumus.

Cordis temperamentum. *Temperamentum* Cordis in activis est calidum imo calidissimum præ omnibus aliis partibus. Benignus tamen calor [illegible] non ardens, non [illegible] Unde [illegible] non est, quod in viva sectione [illegible] non [illegible] in digito [illegible] præsertim [illegible] breviter [illegible] non præparato [illegible] calorem [illegible] partibus communicat, & ad nutri[illegible] calore in [illegible]

Error Auctorum Hispanicorum [illegible] [illegible] [illegible] [illegible] partes [illegible] [illegible]

[illegible] calor [illegible] thorax [illegible] &

[illegible]

[illegible] cor [illegible]

... quod ... *Mercurius* ... *Columbus* ... *Hermannus* ... *Schedelius* ... guinis testatur si hoc ... & *Massaria*. Tales vero homines ... & ... plurimum ... quod ... *Riolanus* ... excrementa, quod ... *Riolanus* ... approbavit.

... est ... sed ... *Riolanus* ... & ... non ... aut ... observavit *Riolanus*.

Usus.

... *Harvejus* ... est ... sanguinem venosum ... in arteriam ... & ... corpus ... *Harveius* ... non ... & *Vena Vasorum* ... & ... tamen ... in ...

Cæterum secundarius hic est Cordis usus ... 1. Nutrimentum ... & calore ... a corde, non habet. 2. Potuisset natura ... alio membro non ita laborioso ... Cordis ... 4. ... in corde fieri, indicium est quod ... non ... antequam Cor ingrediatur.

... Cor ... ut sit ...

... & ... Syncope ... quibus, intercepto ... & calore destituta torpent. ... ut ... partes ... influxus ...

rium, nonq[illegible] ſtra[illegible] cor eſt [illegible] cor [illegible]
exce[illegible] [illegible] [illegible]
ca[illegible] [illegible] ad ſe [illegible] & [illegible]
[illegible] [illegible] obſervavit [illegible]
Conſtantinus. *Harvejus* [illegible] In quantum [illegible]
po[illegible] cor [illegible] vel ſangui[illegible]
[illegible] videas [illegible]
[illegible] proxima per venas [illegible]
veniat ad cor. *Harvejus* [illegible] id [illegible]
una cum venis, arteriis [illegible], contento[que] ſanguine
accipiatur [illegible] ſangui[illegible]
quem [illegible] corpore [illegible] Sed
Fons caloris eſt, tam [illegible] *corpus vitæ*, quam contenti
ſanguinis. [illegible] Non enim à *ſanguine*
[illegible] eſt [illegible] *Harvejus*, quia Cor [illegible] in
ovo & fœtu perfectum fit & ventriculis excitatum calet
moveturque, [illegible] calor in viſceribus & [illegible]
[illegible] cor[illegible]bus. Qui [illegible] ex co[illegible] calid[illegible]
[illegible] & caloris cõſervandi. Nec ſãguineæ partes vel quæ
eo cenſentur calidiores, quod vaſis pluribus vel [illegible]
magis abundant [illegible], ſed quod arterias habeant
arteriolo [illegible] a cordis [illegible]
quo calet ſanguis. Unde [illegible] per cor ſanguis omn[illegible]
ret, non [illegible] calerent partes, quanto [illegible]
recen[illegible] tanto ſit [illegible] & frigidior. Cordis [illegible]
frigere partes quanquam ſanguine [illegible] pulſus
indicat. Verum quidem eſt ſanguinem cordi vel [illegible]
oleum inſtillar[illegible] ſed niſi accenſum [illegible]
fruſtra eſt. Sic ſanguinis ſeu chyli inſitus calor à caloris
cordis excitatur & augetur. Hinc [illegible], ſi ex calor[illegible]
cõſter, facile inflammatur in corde, unde febris, vel ſi [illegible]
[illegible], frigidior ſanguis fit & univerſum corpus [illegible].

Nec à ſolo motu cordis particulari ſanguis corque calent,
ut volunt *Carteſiani*, nam 1. atomos igneos motu excitari
& moveri concedunt, qui à motu eliciantur tantum, non
producantur. Inerat enim cordi calor inſitus, ante motum.
2. Multa moventur, quæ non calent, ut aqua, niſi inſitum
caloris principium habeant. 3. Ante motum calor inerat
ab ortu ſemineo qui continuo deinde motu *conſervatur*.

Calorem excitari tantum in corde ab ebullitione quâ ſanguis [illegible] & ampliorem locum requirens, foras prorumpere cogitur quemadmodũ calx viva aff[illegible] aquâ exardeſcit, & flores ſulphuris mixti cum ſpiritu terebinthinæ [illegible] incaleſcant in ebullitionem efferveſcant, pro Carteſio

[illegible] probat *Velthusius*, [illegible] tam intensus [illegible] pro [illegible]. 2. [illegible] & [illegible] non est, [illegible] calorem. 3. [illegible] non experiunt [illegible] 4. Nec pinguedo circa cor in illam duritiem [illegible] elcere. Sed notandum 1. cordis moderatum calorem [illegible] sufficere pro chyli vel sanguinis insito calore [illegible] & augendo, 2. Per [illegible] illum [illegible], modo à novo chylo [illegible] oleo, suggeratur fomentum. 3. Ebullitionem [illegible] necessariam, exiguo etiam calore insito, promoveri. 4. Insitum esse cordi proprium calorem, præ illum, quem sanguis vel chylus addit, ipse *Cartesius* non diffitetur [illegible] de *Homine à Schuylio* edito, nam [illegible] parenchymatis continere ignem quemdam sine lumine, quo tam calidum [illegible] cor, ut simul ac sanguis al[illegible] venæ cavam intrat, illico [illegible] & dilatetur, [illegible] si cuiusvis animalis sanguis, aut lac [illegible] guttatim destillet.

III. *Sanguinem ex chylo conficere* & [illegible] circulatione [illegible] *perficere & renovare.* Conficit sanguinem ex [illegible] per [illegible] thoracicum & [illegible], in dextrū [illegible] ad cor [illegible] oculari [illegible]. Nam [illegible] Receptaculo per lacte[illegible] [illegible], ut [illegible] [illegible] [illegible] [illegible] 2. Ex [illegible] [illegible] cor [illegible] [illegible] ad caput nec ad [illegible] progressum [illegible] ad cor [illegible] [illegible] *quetum* documentat. Quippe 3. Refecti [illegible] cor [illegible] & [illegible] [illegible], albicans [illegible] venæ cavæ [illegible] circa dextri ventriculi [illegible] 4. Venam cavam à diaphragmate ad jugulū [illegible] apparuit, quod hic fluens separatus à sanguine [illegible] ad per [illegible] venam [illegible] liquor, plane similis chylo. Talem in vena [illegible] cor [illegible] vidit quoque *Mont[illegible]* [illegible] experimentū [illegible] & [illegible], quam, levi [illegible] tactu, in [illegible] clavicula [illegible], spiritu & [illegible] statim in tumorem attolli vidimus [illegible] axillarem venam, sed axillarē prope cor, mox auriculam dextram, & ipsum dextrum ventricu

[illegible] pulmones per [illegible] venam arteriosam.

[illegible]

[illegible] in axillari [illegible]

[illegible]

[illegible] tractiv[illegible] animal, [illegible] separan[illegible]

[illegible] post primam circulationem [illegible] *perficitur*, [illegible] privilegio gavisuras. Modum, quo sāgu[illegible] in corde fit, cerevisiæ coctura docet & illustrat. Ad hanc polenta ex hordeo satis candido [illegible] concurrunt. Chylus polentæ, lympha aquæ, [illegible] respondet [illegible]. [illegible] vasculo, coquuntur [illegible] colorem [illegible] requirunt, sed à candido ad fuscum seu ruborem declinant. [illegible] ad perficiendum requiruntur, postea [illegible].

[illegible] nova [illegible] in coquens necessarium. Hinc *Glissonio* Harve[illegible] [illegible] vero ventriculis & [illegible] [illegible] est [illegible] Ventriculus exemptus [illegible] concoquit [illegible] nil operatur, nisi in proprio hæreat corpore.

[illegible] *Cor esse* [illegible] *organū.* [illegible] *Harve*[illegible] *Hofmannus* & [illegible] [illegible] corde, quanquam cætera bene se habe-

rint,

rior, sanguificatio læsa fuit in hydropicis. 6. In [illegible] primo cor primum conspicitur, antequam ve[illegible] alia viscera. Quod contra Arthiliram *Harvey* [illegible] notandum. Punctum enim [illegible] nullus sanguis apparet, nec apparere [illegible] *Harveyus* aliis sed disjungenda, quippe p[illegible] quam ruber sanguis, qui ab illa dependet. [illegible] decernimus *Loverus*, sanguinē ante viscera formari [illegible] *Harveyo* consentit saltem de Hepate & Liene, quæ [illegible] sanguificare perhibentur. 7. [illegible] ita est natura [illegible] organo, ut in monstris [illegible] ventriculos co[illegible] partibus, ut hepar, appēdat quæ [illegible] vel [illegible] tes in monstro Medioburgeo, quod [illegible] *Everard.* [illegible] extra situ suum Cor [illegible] sangu[illegible] dideturatur. 8. In adulto per [illegible]

Cor *duplicem* sanguinem perficit *hepaticum* & *vitalem*. *Hepaticus* duplex, unus venæ portæ, alter ex [illegible] in corde confectus, in hepate depuratus & percolatus perque circulationem ad cor reducendus. *Venosus* [illegible] duplex, ex venæ cavæ trunco descendente & ascendente. Hepaticum per cavam accipit, [illegible] alter [illegible] ex trunco infero & supero, qui a nutritione partium [illegible] longo [illegible] per, calorem que pu[illegible] & [illegible] tritioni necessarium deposuit.

Consummationem hanc sanguinis confirmat, quod sanguis non prorsus eadem con[illegible] & [illegible] sinistro ventriculo [illegible], qui dextrum [illegible] vel [illegible] in *calore* consistit [illegible] *spirituum*, [illegible] d[illegible] donatur, ingravescit caret, & *effervescit* [illegible] ineptus, ille aptissimus. Spiritus vitales [illegible] cordis [illegible], [illegible] coctione [illegible] per pulmones & pericardium [illegible].

Pro quibus partibus sanguinem conficit & renovat?

Antiqui pro *pulmonum* nutritione tantum [illegible] conficere. Sed majora sunt vasa pulmonaria [illegible] pulmonibus [illegible] perfectam, dum [illegible] ventriculo [illegible] exprimitur, quam [illegible] commodum pulmonum, [illegible] quo [illegible] corpori est sufficiens. Nec omnem [illegible] pulmonum substantiam consumit. [illegible] sanguis est [illegible] to, qui per arteriam venosam versus pulmones in [illegible] ris vivorum [illegible], magna copia continuo [illegible] ad sinistrum ventriculum decurrit. Ad dextrum enim clausis valvulis mitralibus, nulla remeandi via patet.

Dexter

[illegible] circa sanguinem occupatur ad [illegible] ioris, sive ad excre- [illegible] attendum, [illegible] inditur, sinister [illegible] expurgatū, [illegible] Helmontiq & Bar- [illegible] neratur, ut credit Platerus, [illegible] pro totius corporis nutri- [illegible] nosus solus nutrit, quia solus ido- [illegible] que per arterias ad partes extremas petit ur.

Ad [illegible] hunc sanguinem plura concurrunt. 1. [illegible] partim in crudiore hepatis, partim in [illegible] Spiritus vitalis, omnium con [illegible] Lumen spirituum comes, quo co- [illegible] movetur, & nutritioni aptatur. 4. [illegible] crudiores partes [illegible] latentem excitans. 5. [illegible] fabrica [illegible] & vasa tam reci- [illegible] Excrementorum [illegible] non ita manifest 5. Fuligines ex- [illegible] Vapores utrimque ven- [illegible] quam pericardii densantur & in pilos [illegible] Reliqua [illegible] per [illegible] & per sudores ad habitum corporis, fuallora per arterias hæmorrhoidales & mesentericam ra- [illegible] per venas cum sanguine ad cor, ut [illegible]

Quæ ad perfectionem sanguinis requirantur

[illegible] ex artubus quā lacte- [illegible] Ex [illegible] cum sanguine [illegible] cor [illegible] & cor ipsum flaccida apparuerūt, [illegible] artuum conspicuo tumore eminebant. [illegible] lymphatico fistulam [illegible] Ex lacteo thoracico lympha per [illegible] vasa [illegible] [illegible]

Lympha.

Usus [illegible] 1. [illegible] & liberatem [illegible] 2. [illegible] ad consti- [illegible] concurrit. Latet enim & in lympha [illegible]

Usus lymphæ.

[illegible]

[illegible] vel corporis habitum exhalatur.

In quo ventriculo perficiatur?

An in dextro & sinistro ventriculo aeque perficiatur? Quamquam [illegible] a [illegible] sanguine effectus, [illegible] à sanguine hepatico & recurrente [illegible] per pulmones; praeterea [illegible] vix sentiatur calor.

[illegible] cessionem [illegible] & calor facilius custoditur [illegible] recurrente chylus & lympha.

Locum [illegible]

[illegible] ventriculo.

Tempus. Momento perficitur, [illegible]

1. Continuo recipitur & ex[illegible]
2. Ex mora sequeretur sanguinis [illegible]
3. [illegible]
4. Continuus est [illegible]

IV. Usus [illegible] *Motores* [illegible]

Pulsus quid?

In motu cordis PULSUS dicitur, qui continuus est, [illegible] & facultate pulsifica [illegible] concitatus.

Con

Consistit ex *Systole, Diastole, & Peristole.* Quæ diligen- [illegible] Eius partes
[illegible] vorum & Ratio dictabit.

[illegible] *-stole*, motu[illegible] cordis & naturalis, est contra- [illegible] e dextro
[illegible] pulmones effundatur,
& [illegible] per [illegible] corpus.

Diastole [illegible] motus [illegible] cordis, ut hau- [illegible] per venam cavam in dextrum ventriculum
& [illegible] venosam in sinistrum. Non tam proprius
est [illegible] systole [illegible] passio potius [illegible] qua n
[illegible] *Riolanus*, potest [illegible] systole cordis aut
[illegible] At privatio [illegible] sit [illegible]
[illegible] per diastolem [illegible]
[illegible] quiescente cordis.

Peristole est [illegible] & [illegible]
[illegible] vel
[illegible] posito, in
[illegible] facit manifesta. [illegible] est, inter systolen &
[illegible] vel versa vice inter diastolen & systolen. Natu-
ralis hic status est cordis.

Præter hos motus duo alij observantur.

1. *Trepidatio* [illegible] secundum
[illegible] ventriculi [illegible]
[illegible] *Harveyus.* 2. *Tremulus* mo-
[illegible] dependet,
[illegible] non a [illegible] per
[illegible] a reliquis spi-
ritum vitalium.

[illegible] *Diastole* [illegible] & [illegible] Cor in diastole recipit sanguinem.
-stole expellit [illegible] tam in venam arteriosam, quam
[illegible] oculorum testimonio docemur.

[illegible] a vivis dissectionibus. Si ligetur, vel [illegible]
[illegible] filamento [illegible] cava & aorta
[illegible] pulmonaris, [illegible] cavæ parte cor
[illegible]
[illegible] cor [illegible] parte [illegible]
[illegible] ligatura tumere. Pari modo arte-
[illegible]
[illegible] & [illegible] cor [illegible]
[illegible]
[illegible]
[illegible] constricta intumescit versus cor quia à systole
[illegible] a systole [illegible]

 [illegible]

FIGURARUM EXPLICATIO.

Cordis Systolen in vivo animali quadrupede exprimit, & Circulationem.

FIGURA I.

A A. *Pulmones retracti.*
B. *Arteria aorta ligata & versus cor intumescens.*
C. *Vulnus tumida parte inflictum.*
D. *Vena arteriosa, cava, pars modo versus cor tumida, flaccescens qua pulmones respicit.*
e e. *Auriculae utriusque latera*
F F. *Cordis anterior facies, in systole duriuscula, tensa & lateribus extensis, mucrone ad basin retracto.*
g. *Vasa coronaria.*

FIGURA II.

Cordis in Diastolen formam exhibet, & humorum in vasis ejus motum.

a a. *Arteria venosa citra ligaturam versus pulmones impleta, versus cor inanis.*
b. *Auricula sinistra, quae recipit ab arteria venosa sanguinem*
C. *Vena cava vinculo constricta, & tenuis juxta cor, versus hepar tumida.*
d. *Auricula dextra turgens.*
E. *Cor in diastole sua flaccidum postica parte repraesentatum.*
ff. *Pulmonum posterior pars gibba.*

FIGURA III. & IV.

Auricularum cordis interiorem faciem repraesentat: & Fig. quidem 3. auriculam sinistram. 4. dextram auriculam.

aaa. 3. 4. *Membrana auriculae plana.*
b. 3. *Arteriae venosae orificium.* 4. *Venae cavae orificium.*
cccc. 3. *Valvulae tricuspides [illegible], in 4. vero quinis constantes.*
ddd. *Carneae columnae majores.*
eeee. *Carneae columnae minores invicem miro artificio contextae.*
fff. *Foveae multiplices, inter columnas efformatae.*

TABULA IV.

[illegible] cor & [illegible] tum [illegible].

[illegible] elevat [illegible] cop[illegible] [illegible] in [illegible] cor & [illegible] oculum ap[illegible]

3. [illegible] cordis [illegible] vel [illegible] cor [illegible] *[illegible]mo*, apud *VValaeum* vidimus.

4. Tumor cordis & ejusdem flaccidicas externo sensu pal[illegible] [illegible] ven[illegible] [illegible]

5. Ventricu[illegible] appare[illegible] systole.

6. Ex valvorum co[illegible] Vena cava & [illegible] [illegible] orificio [illegible] & in cor [illegible] quam [illegible] permittant. Arterialis [illegible] aorta ampl[illegible] [illegible] vel nih[illegible] tantum emittant.

Quantitas sanguinis in corpore

Quantitas [illegible] cor in diastole & [illegible] per systolen [illegible] exact[illegible] non potest [illegible] pro vario corporis statu [illegible] que temperamento, [illegible] &c. Multa [illegible] & [illegible] oculum patet, [illegible] pia non pers[illegible] ubi cor [illegible] *Asteres* [illegible] unam vel alteram [illegible] Sed [illegible] non mutata, [illegible] cor [illegible] ut taceam [illegible] alias exp[illegible] [illegible] tum & [illegible] quam [illegible] cuspides in Cor [illegible] [illegible] vero [illegible] [illegible] eadem via [illegible]

[illegible] A[illegible] [illegible] Cor [illegible] *Carte[illegible]* [illegible] *R[illegible]* per grana metiuntur, qui[illegible] [illegible] *Harveus*, *VValaeus*, *Conringius*, *Sege[illegible]* [illegible] [illegible] calculum per[illegible]

[illegible] 1. Q[illegible] [illegible] 2. Quan[illegible] [illegible] sit [illegible] 4. Quot pulsa- [illegible] per [illegible] re- [illegible] cor & p[illegible]

[illegible] *D[illegible]* per [illegible] *Harveus* *Primros* [illegible] angulata [illegible] tres [illegible] *Riolanus* vix [illegible] majorem ad [illegible] *Hegelandus* [illegible] quoque [illegible] apertius [illegible] vel ad max- [illegible]

[illegible] in corpore contenta mensura [illegible] ut [illegible] *Andr. Angelus*, [illegible] per sectam venam & cucurbi- [illegible] *Rosp[illegible]* [illegible]

2. In [illegible] pars vel quarta, vel quinta, vel sexta [illegible] octava, vel [illegible]

In [illegible] *Harveus*, vel drach- [illegible] & [illegible] scrupulum [illegible] *Conringius* *Vitalis* [illegible] scrupulum [illegible] & *Hegemorus* quantum [illegible] capacitas contine- [illegible] *Charleton* tres [illegible] *Hegelandus* [illegible] & [illegible] & [illegible] potest [illegible]

 cor

cor in Systole, ut omnem plane sanguinem ex[illegible] [illegible] Cor[illegible] [illegible] ipsorum, donec [illegible] [illegible] & parte [illegible] [illegible] acceptio.

4. [illegible] *Primarosius* [illegible] *Riolanus* [illegible] *Harveyus* [illegible] *Cardanus*, 1000, *Plemp*[illegible] [illegible]

[illegible]

Ex tribus illis praemissis colligimus, quantum sanguinis [illegible]

Ex Diastolis 1000		℔ x. ℥v
[illegible], 4[illegible]		℔ xiii[illegible]
[illegible], 4[illegible]		℔ xv. ℥i. ʒi[illegible]
[illegible], 4[illegible]	repetito, exsurgunt	℔ vii. ℥[illegible]
[illegible], 2[illegible]		℔ xx. ℥i[illegible]
[illegible], 2[illegible]		℔ xli. ʒ8.
[illegible], 2[illegible]		℔ lxxviii[illegible] ʒ4
[illegible], 2[illegible]		℔ 166 ʒ8

[illegible] computatam ex [illegible] *Cardano* [illegible]

[illegible] universum sanguinem in corpore contentum [illegible] supplet, sequitur [illegible]. Plus sanguinis [illegible] quam suppeditari potest a coctione [illegible] venas & [illegible]. Omnem [illegible] vel semihoram [illegible] [illegible] horas cor permeare. Nam semel bis ve in [illegible] *Riolano* non [illegible] [illegible] sanguinem [illegible] vasa, nec [illegible] [illegible] potest, nec [illegible] per venas ad cor, damnatque *Circu*[illegible] [illegible] & *Arterias*

[illegible] & [illegible]

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BIBLIOTECA

[illegible] 1. [illegible] animalium. 2. [illegible] & [illegible] commoditas. 3. [illegible] & [illegible] parte. [illegible]

In [illegible] 1. M[illegible] cor [illegible] ad basin [illegible], [illegible] [illegible] In [illegible] vero [illegible] non ex [illegible], à [illegible] Vertigo. A [illegible] [illegible] Rotam [illegible] vel [illegible] A [illegible] basis [illegible] [illegible] [illegible] & Sagedia [illegible] [illegible] [illegible] cordis [illegible] [illegible] [illegible]

[illegible] Dialto [illegible] [illegible]

3 [illegible] [illegible] basis [illegible] [illegible] [illegible] [illegible] & [illegible] Syrto [illegible] [illegible] pectore [illegible] aortæ [illegible]

4. [illegible] & [illegible].

5. [illegible] & [illegible], molesque [illegible] & [illegible].

6. A [illegible] in Syrto [illegible].

7. [illegible] & [illegible] Dia[illegible]

1. M[illegible] [illegible] basi, [illegible] [illegible] [illegible]

2. [illegible] partes [illegible] [illegible] [illegible] costas extenduntur.

3. [illegible] [illegible] posteri[illegible] [illegible] [illegible] ad [illegible] [illegible] tatione *Walæi*.

Per[illegible] [illegible] Systolen, diffe[illegible] à Dia-stole aliis notis discernitur.

Cordis forma in dia-stole.

1. *Diastole* [illegible] [illegible] *Baco* [illegible] & [illegible] ad cont[illegible] [illegible]

1. [illegible] [illegible] quæ per [illegible] [illegible] [illegible] [illegible] *Ba[illegible] Laurentius*, [illegible] [illegible] [illegible] [illegible]

2. [illegible] & [illegible] partes [illegible] [illegible] partitur.

3. [illegible] & [illegible] [illegible] [illegible] mment, unde [illegible] [illegible] cor vivum con[illegible] ctio sentitur.

4. Rubet ob parietum [illegible], & receptum sangui-nem [illegible]

5. [illegible] [illegible] [illegible] longitu[illegible] [illegible] cor, ut [illegible] [illegible] recipiendo sanguini. Ve[illegible] [illegible] [illegible] *μ[illegible]ψίαν* non admitte[illegible], nec [illegible] potest [illegible] debet. Non [illegible] [illegible] [illegible] [illegible] [illegible] est [illegible] [illegible] [illegible] [illegible] [illegible] Nec [illegible] *Cart[illegible]* & *Regio* [illegible] [illegible] [illegible] Diastole [illegible] [illegible] [illegible] cedere. [illegible] [illegible] per systolen seu quietem [illegible] [illegible] cor, laxum & sanguinis [illegible], antequam Dia-stole sit perfecta finita Systole. Præterea in Diastole ex-pelli sanguinem [illegible] corde vivo qui [illegible], [illegible] [illegible] *Walæo* [illegible] [illegible] [illegible] [illegible] tamen revera est contr[illegible]. Ex [illegible] [illegible] [illegible] Diastole non pulsu [illegible], sed [illegible] patet [illegible] via, placide labitur stillatque.

[illegible] [illegible] *Swammerus*, ex [illegible] [illegible] corde principijs [illegible] [illegible] & [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] *a[illegible]* [illegible]

[illegible]

[illegible] contrahi conus mo- [illegible] a septo descendentes [illegible] [illegible] babar, adeoque [illegible] quia vero [illegible] *Anatomici* etiam evalent [illegible].

Efficiens [illegible] vel [illegible] *sanguis* & [illegible] *purpurea* [illegible], vel [illegible] vel [illegible]. *Efficiens causa motus cordis proxima*

[illegible] & ar- [illegible] Ab hoc [illegible] continuo movetur cor, uti [illegible] molendarix, [illegible] agitatur, quo intercepto cessat. [illegible] ascendente & [illegible] a capite [illegible] *Harveo* & *Walao*. [illegible] & palpitatio [illegible] novo exp- [illegible] cordis motu vel [illegible] ex animalibus [illegible] cordis [illegible] per apertam [illegible] ad cor [illegible] integrer.

[illegible] non possunt, nec ea quantitate ut [illegible] *Aristoteles* [illegible] modo expl- icati. *C. Cremoninus* [illegible] sententia & [illegible] cordis concepit, sicut [illegible] & terrae mo- [illegible] propria gravitate [illegible] *C. Hofmannus* ad inaequalitatem [illegible]

n[illegible], non [illegible] quod [illegible] partes [illegible] dam descendit.

[illegible] intemperatum interpretantur alii. Primerosius [illegible] [illegible] quam [illegible] nimis intumescere maxime, quum fermentum [illegible] & quasi [illegible] quædam. Fernelius ex uno [illegible] grano [illegible] cordialis [illegible] noctum ex uno grano gummi [illegible] injecto, totum conclave odore repletur.

Sed non paucæ difficultates obstant.

1. Ebullitio nulla per se æqualis, at pulsus subinde inæqualis.

2. Pulsus foret major quo major esset ebullitio. At in febribus ardentibus [illegible] sanguinis [illegible] est maxima [illegible] calorem & [illegible] exilis tamen [illegible] pulsus, & [illegible] ratio semper parvus teste Galeno.

3. In sectione vivorum, si vel cordi vulnus infligas vel arteriis cordi vicinis, sanguis purus copiose exsilit, non spumescens non ebulliens, non acrescens, talisque permanet [illegible] tempore. Momento autem temporis nec in [illegible] post [illegible] ebulliens [illegible]. Imo si in vasis [illegible] colligas venosum ex cava prope cor, & arteriosum ex aorta juxta exortum, nec [illegible] nec interposita mora differentiam invenies. Mecum testatur Harveyus [illegible], & quotquot periculum fecerunt.

4. In [illegible] convert. totus à corde nec potest [illegible]. Non [illegible], quia tantus calor non est cordi [illegible] nec exceptus ex arteria sanguis [illegible] ignis [illegible] totus extenuatur, observante Conringio. Nec hoc quia spirituosæ [illegible] non sunt partes, quarum nutritioni destinatur.

5. Ebullitionem immersio in frigidam depr[illegible]. At [illegible] brachium [illegible] donec tumeat [illegible], si [illegible] in aquam gelidissimam [illegible] Harvejus, [illegible] ad cor sanguinem quantum refrigeret.

[illegible] Renatus des Cartes, [illegible] Corn. Hoogland[illegible] & Henr. Regius motum cordis a rarefacente [illegible] vel altera gutta [illegible] Quando cordis [illegible] sanguine non [illegible] [illegible] duæ [illegible] magnæ [illegible], una e cava in dextrum [illegible] vena arteriosa in [illegible] [illegible]

quia

[illegible] plena sunt [illegible] cor [illegible] [illegible] gutta [illegible] ardentes, mox accenduntur & rarefi[illegible] quo valvulæ per quas guttæ sunt [illegible] clau[illegible] & cor [illegible]. [illegible] magis magisque rarefi[illegible] non [illegible] eodem temporis momento, in dextro ventri[illegible] venæ arteriosæ [illegible] & a calore [illegible] per venam arteriosam [illegible] omnes [illegible] ramos distendendo [illegible] propel[illegible] *Diastole*[illegible] [illegible] valvulas [illegible] foras [illegible]antes [illegible] arteriam [illegible] quam di[illegible]latat, & [illegible] proximam [illegible] pulsus [illegible] & expellitur in [illegible] totius corporis arterias pro[illegible]pe[illegible], at co[illegible]tentantur. At [illegible] *Diastolen* [illegible] *Systolen* vero [illegible] expulso [illegible] cor [illegible] san[illegible]guine, cor ex parte evacuatur & [illegible] refrigeratur, cor [illegible] & arteriæ [illegible] [illegible] Diastole.

N[illegible] calore non [illegible] ex[illegible], quatenus in Veneris [illegible] præter [illegible] molem guttulas aliquot rarefieri, ut motus [illegible] [illegible] arteriis [illegible], multa [illegible] super[illegible]ius ebullitioni opposita, dissuadent.

1. Vivæ sectiones, in quibus nec læso [illegible] arte[illegible] [illegible]

2. [illegible] tam vel [illegible] illa [illegible] adesse [illegible].

3. In valvulas [illegible] cordis [illegible] *Plazzius*, [illegible] media parte [illegible] nec tamen a rarefactione reple[illegible] [illegible] accedente constrictione, portionem illam [illegible] quæ in corde erat reliqua, ultra quatuor [illegible] [illegible]. Excretionem [illegible] causæ subitaneum [illegible]vocare, frustraneum. Nam mo[illegible] uno non defervescit in corde sanguis [illegible] calore, quemadmodum [illegible] operculo non nisi interposita [illegible].

4. [illegible] vasorumque structura idem eleganter evin[illegible] [illegible]. Caro enim cordis musculosa [illegible] & val[illegible]

[illegible]

[illegible] & [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

5 [illegible] cordis & [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] arteriæ Systole fieret.

6 [illegible] arteriis [illegible] permittit [illegible] [illegible] ex arteriis extrahitur, [illegible] [illegible] [illegible] [illegible], qui sive in corde sive prope cor [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] vasa [illegible] & [illegible] cordis [illegible] [illegible], quia [illegible] vasa [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] humores [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] est usus, si deficit [illegible].

Experimenta & rationes in contrarium [illegible] [illegible] Viris allatæ, ab anguilla & cane venatico, a [illegible] [illegible] in embryone [illegible] [illegible] [illegible] [illegible] spiritu vitali [illegible] [illegible] [illegible] [illegible] [illegible], &c. facile solvuntur, si consideres

1. Motum [illegible] [illegible] [illegible] [illegible] [illegible] à calore suscitato, sicut in musculis.

2. Valorum [illegible] [illegible] [illegible] [illegible] [illegible], non sanguinis, si detumescant.

3. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] exempla, [illegible] [illegible] [illegible] [illegible]

4. In corde [illegible] esse motum [illegible] [illegible] sive a spiritu vitali, sive [illegible] [illegible].

5. [illegible] à sanguine puro esse vehementiorem, si [illegible] concurrat fibræque cordis [illegible].

6. In [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] nulla apparet dilatatio: si in systole [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].

An facultas pulsifica admittenda? *Facultas Pulsifica* [illegible] [illegible] [illegible] [illegible] [illegible] necessaria est [illegible] [illegible] [illegible] [illegible] [illegible] & [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], ex sententia [illegible] [illegible] [illegible] [illegible] sanguinis perpetuus fluxus [illegible]. Necessaria [illegible] [illegible]

[illegible]

[illegible] facultatem probo: 1. [illegible] foret [illegible], [illegible] tanquam [illegible] 2. [illegible] motus [illegible], [illegible] Vesal. [illegible] hæc [illegible] post hæmorrhagias [illegible] in toto [illegible] sive prope [illegible]. Unde utraque causa, ut primaria, con-[illegible] 3. [illegible] exhiberi ab hujus [illegible] 4. Cor exemplum [illegible] *Vesalius* [illegible] Vipera [illegible] apud [illegible] *Fr. Tomas*, [illegible] tamen sub finem [illegible]. Et [illegible] majestatem [illegible] ab [illegible] movet, & [illegible] per se moveri [illegible] fibris [illegible] ad con-[illegible]. Easdem fibras & cor [illegible] habet, quanquam [illegible] & [illegible].

[illegible] *spirituum animalium* [illegible] fibras [illegible] *Regius*, *Hogelandius* vero *corpuscula* [illegible] Spiritus [illegible] 3. [illegible] coronaria [illegible] non pot-[illegible] calore [illegible] extincta quamquam loco vel [illegible] palpitabant. Non [illegible] pro functione vitali *æqua-liter* [illegible] *Vesalius* [illegible] nervo sexti pa-[illegible].

Latet *Remotas causas* est.

1. *Spiritus* [illegible] adveniens, [illegible] *calore* [illegible] *non internus* [illegible] calorem [illegible] 2. Elementorum motus est

Remota causa motus cordis.

est [illegible] lux [illegible] ventris a [illegible] humerat [illegible] quæ [illegible] flamma a [illegible] accensa [illegible] Apud *Hippocratem* [illegible] 5. [illegible] illius humor, quanquam calidus [illegible] accensa flamma, ut in [illegible] 6. In Cicindelis pars poste[illegible] splendetque, de quo [illegible] *lib. 2. de luc. Animal.* [illegible] Spiritum vitalem [illegible] ibidem *lib. 1.* [illegible] 2[illegible] demonstravimus. *Helmontius* [illegible] fumosum [illegible] à priori lum ac fumosam [illegible] esse motorem. Post *Cartesium* aliosque [illegible] idem de flamma [illegible] *Ent[illegible]*, ex [illegible] vel [illegible] in cordis [illegible] pulmones suo sanguine [illegible] quod [illegible] principium; Nam in Systole [illegible] tumque in corde arctiore [illegible] per systolen [illegible] flammæ [illegible]

De flamma [illegible] *Jac. Hold[illegible]* [illegible] etiam [illegible] per [illegible] lacteam vel lymphaticos [illegible] ventriculo [illegible] per [illegible] flamma [illegible] *[illegible]* flammam à *fermento* nitrosulphureo [illegible] id probat *Louvers[illegible]* [illegible] per [illegible] & quod [illegible] *Cartesius* [illegible] *non in corde* [illegible] & [illegible] quæ [illegible] seminativæ [illegible] & [illegible]

[illegible] & [illegible] *conformatio*, excipiendo sangui[illegible]

& exp[illegible] apertiuntur impetus *fibra* cordis & *carneæ columnæ*. H[illegible] non tam ad robur [illegible], quam motum co[illegible] [illegible]. Nam, c[illegible] omnibus fibris ma[illegible] & [illegible], in [illegible] & septo [illegible] *Harveja*. [illegible] ac [illegible] & pressa [illegible] exp[illegible]tur contentum. In Systole tenduntur, remittuntur in Diastole. M[illegible]norum fibrarum ope, quibus caro [illegible], *[illegible]* constrictio fit, ad [illegible] vero majores [illegible] con[illegible] in ventriculis contentæ, quod in [illegible] vivis sæpe *Walæus* observavit.

Pulsio cordis, sanguinis & partium extremarum. A [illegible] pulsu, quo cessante motus quoque cessat. Incipit autem a vena cava, continuatque ad auricula dextra, [illegible] a dextro sinu in venam arteriosam; vel si mucro [illegible], extrorsum ab arteria venosa in auriculam sinistram [illegible] in sinistrum, ex quo in ao[illegible]tam [illegible] sed pulso sentitur in vivorum Anatome.

Pellunt, quia [illegible] copia molestus est sanguis. 2. irritata quadam [illegible] vi externa commoventur. 3. Sanguis continuo suppeditatur. Nam sanguis sanguinem trudit perpetuque, ut etiam exemplo [illegible] [illegible] corde motum sanguinis [illegible] celerem in venis viderit *Walæus*. Non [illegible] tamen propria sanguinis ad movendum potentia, sed partim *partium extremarum* pulsione, quæ [illegible] quod a nutritione superest tanquam otiosum & superfluum; partim spontanea [illegible] sanguine repletorum contractione, quorum arteriæ in vivis versus cor ligatæ intumescunt, versus partes extremas [illegible], venæ vero prope [illegible] & partes à quibus revehunt inflantur, concidunt qua cor [illegible], [illegible] quod pellunt; partim denique *musculorum* [illegible] & [illegible] partibus contractione & propulsione, ut advertit *Harvejus*.

4. *Attractio* cordis & partium, ne alimento destituantur [illegible] & sufficienti, quam in [illegible] partibus secundum [illegible] observamus quæ nutriuntur; præter naturam [illegible] [illegible], ulceribus, tumoribus, &c. Et fieri [illegible] potest, quia sanguis ubique depertus attrahentium [illegible] & partibus immediate alligatur, ajuvante pulsione cavæ & arteriarum.

CAP. VII.

DE CORDIS PARTIBUS in Specie, Auriculis, Cavitatibus, Septo, Vasis, & Valvulis.

PArtes cordis specialiter considerandæ, [illegible] componuntur, ut AURICULÆ, [illegible] VENTRICULI, [illegible] SEPTUM [illegible] & VASA cum VALVULIS.

Auriculæ cordis cur ita dictæ? Quid in ovo pulsat primum?

AURICULÆ [illegible] formam [illegible] ob [illegible] hominis [illegible] ut [illegible] ut [illegible] ante cor [illegible] Pulsans [illegible] vesicula [illegible] quæ [illegible] tas non [illegible] cordis, [illegible] vesicula [illegible] Aliam rationem *aliqui* [illegible] eandem [illegible] [illegible] servant, quam vesicula habebat. Sed [illegible] stinguere in prima [illegible] perdifficile. *Alij* vero [illegible] pro corde [illegible] expansiones [illegible] auriculæ [illegible] [illegible] cor [illegible] non [illegible] [illegible] & [illegible] Sed [illegible] [illegible] tam [illegible] [illegible] corpore esse majorem. Nec cor [illegible] est parenchyma [illegible] sanguine [illegible] Habet fibras ex vesicula sine dubio productos.

Sunt vero AURICULÆ processus vel appendices [illegible] *membranosæ* [illegible] substantia [illegible] & [illegible] lacera. [illegible] an verum [illegible] [illegible] [illegible] [illegible] primum ex vesicula, primum [illegible] tur & ultimum [illegible]

Earum situs.

Situs ad cordis basin [illegible] cavitatibus cohærent, cordique [illegible] [illegible] Nam

Numerus.

Numero duæ sunt [illegible] venæ cavæ [illegible] major, & sinistra minor. [illegible] stior. Illa venæ cavæ, cum qua [illegible] conit [illegible] apposita est, hæc arteriæ venosæ.

Substantia [illegible] est peculiaris, qualis nulla in alia parte, [illegible] Sunt [illegible] [illegible] contractionem, nervosæ [illegible]

[illegible] paulo carnosior & crassior, non ita [illegible] dis ventriculis.

Sut[illegible] & [illegible] gib[illegible] [illegible] latum annectuntur. 2. circa totam circ[illegible] *columnæ* [illegible] *fovea* [illegible] *multa* [illegible] ventriculos [illegible] potius [illegible] esse [illegible]

Foramen [illegible] *ctum* juxta auriculam dextram, [illegible] cum secto transire [illegible]

Color. In *fœtu* [illegible] *Harveo* [illegible] & [illegible] In *adultis* [illegible] obscuriores, [illegible] moventur [illegible] expellitur [illegible] in dia-stole recepto sanguine.

Motus [illegible] manifestus in vivorum Anatome, ab irruen-te & tepicante [illegible] in viventibus tumet, & con-tractione per fibras carneas in se contractas, sanguinem in ventriculos [illegible] conantes.

[illegible] motus partes [illegible] *Systole, Diastole,* & intermedia quies [illegible] in moribundis distinguenda, sunt enim [illegible]

Margin notes: *Sut*[illegible] — *Color.* — *Motus.*

FIGURARUM EXPLICATIO.

FIGURA I.

Cor per transversum dissectum exhibet.

A. *Basis cordis.*
B. *Ejus mucro.*
C. *Auricula dextra.*
D. *Auricula sinistra.*
E E. *Dextri ventriculi figura semilunaris.*
F F. *Ventriculi sinistri cavitas.*
G G. *Septum inter ventriculos medium.*

FIGURA II.

Venam cavam cum dextro ventriculo dissectam.

A. *Orificium venæ coronariæ.*
B. *Vestigium anastomoseos inter venam cavam & pulmonalẽ.*
C C C. *Valvulæ tricuspides cum fibrillis quibus alligantur.*
D. *Ventriculus per longum dissectus.*

FIGURA III.

A. *Dexter cordis ventriculus apertus.*
B B B. *Valvulæ sigmoides in vena arteriosa conspicuæ.*

FIGURA IV.

A A. *Arteria venosa dissecta.*
B. *Anastomosis inter arteriam venosam & venam cavam vestigium.*
C C. *Valvulæ duæ mitrales.*
D. *Ventriculus sinister apertus.*

FIGURA V.

A. *Arteria magna dissecta juxta cor.*
B B B. *Valvulæ in orificio arteriæ magnæ semilunares.*

celeritate in fauces, ut confundi videantur, simul, ut peragi, sicut in bombarda uno ictu omnia explodi diceres, & in deglutitione, monente *Harvejo.*

Diastolen efficit receptus à vena cava & arteria venosa sanguis. *Systole* peragitur quando repletæ auriculæ in ventriculos contractione sua eundem expellunt.

Utriusque auriculæ Diastole & Systole eodem tempore accidunt. Dextra quando diastolen patitur, eodem tempore patitur & sinistra; quando hæc constringitur in systole, expellit & illa. Sed Diastole cordis & auricularum diversi-cent

II

III

Fig. I

V

IV

FIGURARUM EXPLICATI[illegible]

Tabula hæc cavitates Cordis papillasque [illegible] ex *Lowero*.

FIGURA I.

a a. *Vena pulmonalis recisa ante ingressum cordis exportatur.*
b. *Auricula cordis sinistra.*
c. *Foramen ovale per quod sanguis à vena cava recta [illegible] sinistri ventriculi ostium influit.*
d d. *Duæ membranulæ mitrales.*
e e. *Carnea columnæ in utroque ventriculi latere protuberantes.*
f. *Basis cordis ubi sanguis à vena pulmonali in ventr. influit.*
g. *Locus ubi membranis mitralibus ubi emittitur in aortam.*
h. *Conus cordis.*
i i i. *Fibræ carneæ hinc inde per totum interioris ventriculi ambitum intertextæ.*

FIGURA II.

a a a. *Basis auriculæ ubi tendini cordis unitur.*
b b b. *Tendinosus circulus quo à vena cava distinguitur.*
c c c. *Fibræ carneæ hinc inde in diversos ordines ductæ cum fibrillis intermediis quasi in pinnulam efformatæ.*
d. *Vena magna coronaria.*
e e. *Venæ aliæ minores sanguinis à corde referendo constitutæ.*
f. *Pars auriculæ superior.*

tempore eveniunt, ut & systole utriusque. Systole autem [illegible] cum diastole ventriculorum simul concurrit, & vicissim [illegible] semperque illarum constrictio [illegible] præcedit, tam in sanis quam morti vicinis. Sed [illegible] motus quam [illegible] ventriculo deficiente pul[illegible] auricula sinistra, quæ extincta, [illegible] est in dextro [illegible] motus eoque cessante [illegible] palp[illegible] [illegible] [illegible] quod illa [illegible] motus in sanguine influente [illegible] partium extremarum.

Usus. Usus I. [illegible] cordis promptuaria [illegible] recipiunt enim [illegible] [illegible] subito in cor [illegible] [illegible] [illegible] vasis cordis [illegible] [illegible] apponuntur, non effluentibus arteriis.

II. Va

Fig. 2

ACADEMIA

II. Vasa, quibus apponuntur, tutari.

III. *Hippocrati* est [illegible]

IV. *Walaeo* est [illegible], qua [illegible] sanguinem vena cava & arteria venosa [illegible] pulsibus omnis extra sanguis non deberet, [illegible] pars deberet morari & ulterius perfici [illegible] cordis apponit pro vasculis quibus tantum [illegible] tur, quantum naturaliter è corde singulis pulsibus evacuatur. Unde & dextram auriculam sinistra majorem putat, quod dexter ventriculus sinistro capacior, & ea quoque plus quam ex sinistro, [illegible] & nutrimentum pulmonis, excernantur.

V. Affinis est his usus *Highmori*, ne sanguis [illegible] & repente [illegible] vel valvulas [illegible] impedita.

Ventriculi cordis. Error Aristotelis. CAVITATES Cordis sive Ventriculi [illegible] specus, & non tres sunt ut ab *Aristotele* [illegible] majoribus Animalibus describitur, [illegible] duo tantum, ut [illegible] *Vesalius* & *Sylvius* observavere. Nec *Gaimus* Romæ in Elephante invenit plures. Et non nisi [illegible] tres, ab *Æmilio Parisano* Veneto in corde [illegible] observat. Et [illegible] quas [illegible] vidit *Calceolarius* [illegible] & pilosus, [illegible] apparet [illegible] revera tamen in unum coit. *Licetus* tertium [illegible] Aristotelis pro dextro ventriculo [illegible] accipit, ut valvulas [illegible] Philosophi. Alter Aristotelem excusat *Cunningamus* [illegible] de [illegible] cava, [illegible] aorta, & [illegible] venosa [illegible] sinistra [illegible] vix conspicitur. Sed ita [illegible] vena arteriosa, [illegible] prima fronte apparet, non tres. Duæ igitur tantum [illegible] in animali cavitates, dextra & sinistra [illegible] superficiem habentes [illegible], inæqualem & asperam, maxime vero sinistra. [illegible] Polonus [illegible] dam a *Riolano* [illegible] hunc ventriculum [illegible]

Foveæ intus [illegible] sunt [illegible] a carne [illegible] dextro plures, sed angustiores, [illegible] profundiores, ut [illegible] receptum sanguinem [illegible] fiunt in dilatatione [illegible] priores. Foveas [illegible] & [illegible]

Carneæ columnæ in *Carneæ particulæ* [illegible], modo rotundæ modo [illegible] quinque aut plures [illegible] sinistro

[illegible] sunt in conspectiores, sed crassissimæ, fibris [illegible] radix. Ampliores per [illegible] vias [illegible]. Usus [illegible] cordis [illegible]. *Massa* [illegible] *Vesalio* & *Riolano* columnæ carneæ, quæ contractæ promovent diastolen. *Parisanus* [illegible] cor se constringat. *Walæus* quoque ad contractionem seu systolen concurrere [illegible] ad [illegible], ubi a basi [illegible] & [illegible] ad mucronem pergit. *Harvejus* conum ad basin adducere fibris obliquis. Calorem per omnes [illegible] *A. Benedictus*. *Externus*, ut [illegible] concoquatur ne grumescat. *Backius*, ut sint tanquam funes & retinacula quæ inhibent ne in contractionibus cordis valvulæ ultra metam adactæ, retinendo [illegible]. *Slegelio* contrahuntur ut claudant [illegible] orificia vasorum cavæ & arteriæ venosæ. Omnes hæ sententiæ veræ sunt & conjungendæ, ut accurate tempora motuum cordis consideranti erit manifestum. *Lindano* [illegible] sunt seu musculi, à quibus fibrillæ quasi tendines minuti propagantur & inferuntur valvularum [illegible] gratia. Quomodo valvulæ his utatur docet *Highmorus* qui carneas papillas vocat cum fibrosa textura. *De [illegible]* carneos hos [illegible] obstare credit, quo minus [illegible] cordis mutuo contactu jungi possint [illegible], atque universum sanguinem expellere, sed ita *locatos*, ut [illegible] alterum ingrediatur, claudanteque ita exacte ventriculum. Nihil tamen hic situs circulationi officit, quæ [illegible] sanguinis semel [illegible] aliqua systole expellit.

Ventriculi cordis.

Præter [illegible] multa in ventriculis reperiuntur. *Bambinus* [illegible], & *Wormius* noster Expertissimus ex utroque ventriculo carunculas quasdam interius albicantes, exterius [illegible] colore emergentes, quod & nos Patavii [illegible] & *Hafniæ* in dissectionibus nostris invenimus, hominum juxta & brutorum. Imitatur illæ polypos, quos in [illegible] ventriculo ex fide *Langelotti* & *Kerckringii* relatione in *Histor. Rarioribus* exhibuimus. *[illegible]* concretionem [illegible] flavicolor [illegible] instar medullæ, quæ in boum coctis [illegible] per [illegible] *[illegible]* [illegible] carnis [illegible] *Benivenius* [illegible] instar [illegible].

In corde præter naturâ reperta.

[illegible] *salius* observat, [illegible] Confluentiæ *J. [illegible]*, [illegible] Londini *Majus*, [illegible] Neapoli *M. A. Severinus*. Calculos cum [illegible] calculosa *Hollerius*, & pisorum quan[illegible].

FIGURARUM EXPLICATIO

FIGURA I

Sinus primus dextri Ventriculi Cordis cum valvulis tricuspidibus tribus A A A.

FIGURA II.

Sinus alter dextri Ventriculi cordis, cum valvulis tribus mitralibus B B B.

FIGURA III.

Sinus primus sinistri Ventriculi Cordis cum valvulis duabus tricuspidibus C C.

FIGURA IV.

Sinus alter sinistri Ventriculi Cordis cum valvulis tribus mitralibus D D D.

FIGURA VI.

A B. *Basis cordis.*
C C. *Auricula cordis.*
d. *Dexter cordis ventriculus.*
e. *Sinister.*
f. *Mucro cordis abscissus.*
g. *Sinister ventric. cordis.*
h. *Dexter.*
i i i. *Septum medium.*

Os in cordis. Ossa in hominum cordibus rara [illegible]. Vidit tamen *Gemma* semel, & *Riolanus* bis, in cadavere Praesidis *Nicolai Obuge-mart*, ad mortem [illegible], & in Regina *Maria Medicaea* Matre *Lud.* XIII. post [illegible] ad posthumam [illegible] aperta. *Jo. Trullus* [illegible] *Urbani* VIII. Pont. Rom. [illegible] figura triangulari [illegible] litterae T. *Simon Paulli* Clariss. [illegible] in Theatro Anatomico praedecessor meus, [illegible] calculum [illegible] [illegible] Hafniae [illegible] juglandis [illegible] [illegible] & externa figura [illegible] vel litterae Y. [illegible] [illegible] cartilagine [illegible] & [illegible] [illegible]. Utitur tamen hoc defectu natura ad [illegible], sicut [illegible] sanguinis [illegible] & accelerationem, sicut [illegible] labantur, vel ne sanguis totus [illegible], sicut [illegible] & laniones baculo agitant sanguinem

fig 2

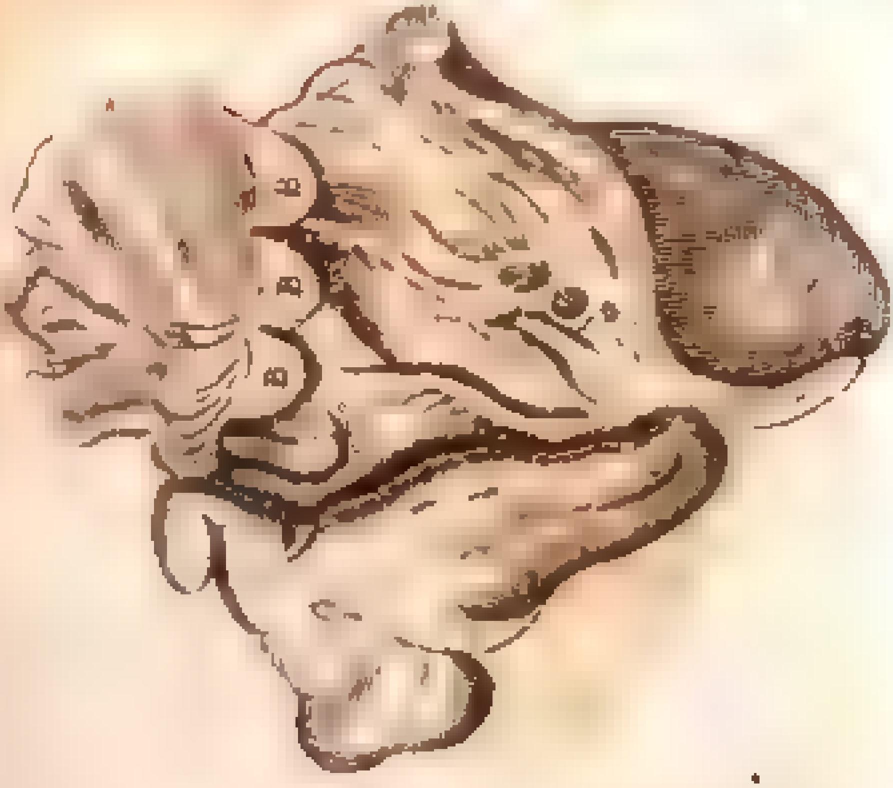


fig 1

337

fig. III

A

guinem in [illegible] .. Quin [illegible]
[illegible] fuit cordi inhra [illegible] quam [illegible] induratam [illegible] [illegible] & [illegible], & [illegible] cordi [illegible] tur pro commodo sanguinis [illegible]

Dexter. *Dexter ventriculus* sanguinem [illegible] in se recipit [illegible] non tam crassa carne seu [illegible] stat, velut sinister, ut [illegible] continent, & majus [illegible] quam [illegible], [illegible] perfecta hic fiat coctio [illegible] sinistro, ubi [illegible]

Non exacte rotundus [illegible] tis lunæ est, neque ad [illegible] quasi appendix ad [illegible] remoto dextro, integrum [illegible] quasi con[illegible] tare videtur.

Latior tamen est, & major sinistro, ob [illegible] piam, quam continere debebat, & pro [illegible] cis, & pro spiritibus vitalibus [illegible] ventr[illegible] gnendis. Nam

Usus ejus est I. Sanguinem [illegible] ex vena cava, ad pulmonem [illegible], [illegible] dum sanguis [illegible] in pulmones per [illegible] [illegible] pisces [illegible] pulmon[illegible] cor [illegible] & [illegible] ces non inspirant, hinc dextrum ven[illegible] sed unicum tantum. H[illegible] ergo dexter ventr[illegible] attenuat sanguinem pro pulmonum [illegible].

Pisces cur unicum in corde ventriculum habeant?

II. Mittere partem [illegible] per [illegible] ventriculum, ad [illegible] vitales [illegible] vero per pulmones [illegible] perfectior revertatur ad sinistrum ventriculum pro [illegible] corpore alendo.

III. Sanguinem recurrentem a [illegible] extremarum partium [illegible] iterum [illegible] novum chylum cum lympha & [illegible] defluentem pro [illegible] continere & [illegible]

Sinister. *Sinister ventriculus* angustior est, [illegible] habens cavitatem sup[illegible] angustiorem, & [illegible] p[illegible] ex[illegible] & ut fortior fiat motus sanguinis [illegible] [illegible]

[illegible] est [illegible] vitalé cum [illegible] [illegible] [illegible] materia, I. Ex [illegible] præparato, & per ipsum pulmonem [illegible]. II. Ex
aere

[illegible] & [illegible] [illegible] præparatos, [illegible] & ver [illegible] [illegible] & [illegible] [illegible] [illegible] vel [illegible] [illegible] [illegible] Animam autem posse per [illegible] in [illegible] transire experi[illegible] *Swammerdammus*, apud Fr. Sylvium.

[illegible] idem fere *Usus*, nempe san[illegible] & perficere venosum [illegible] per venas recurrentem, & expellere [illegible] per arterias [illegible] totius corporis extrema [illegible] [illegible] ex parte [illegible] vena & arteria [illegible] & reve[illegible] [illegible] & [illegible] [illegible] [illegible] [illegible] & [illegible] Differentiam [illegible] [illegible] [illegible] Nam dexter circa [illegible] occupatur, sinister in [illegible] Dexter [illegible] pulmonibus [illegible] pro toto corpore [illegible] ad pulmones & [illegible] a pulmonibus re[illegible] [illegible] pit sanguinem aere [illegible]

Ventriculi usus.

Septum [illegible] vel [illegible] est inter [illegible] ventri[illegible] [illegible] [illegible] *Columbo* [illegible] [illegible] & *foraminibus* [illegible] *Aristoteles* [illegible] [illegible] extremos vero [illegible] *Helmontius* [illegible] [illegible] morte. [illegible]

Aperta [illegible] & [illegible] *Gassendus* [illegible] [illegible] per varios mæandros [illegible] [illegible] [illegible] autem [illegible] carnem [illegible]

Poros in septo cordis man[i]festi.

[illegible]

[illegible] *Pavanus* [illegible] ubi [illegible] perfor [illegible] hendetur [illegible] ducebat, [illegible] anatomicis [illegible] apponebatur. [illegible] quoque [illegible] mucro tem [illegible] conspexit *Vesalius*, in septo [illegible] cordis [illegible] *sinum* [illegible] ventriculum [illegible] mucronem [illegible] patulum [illegible] plitudine & longitudine, quem pro tertio *Aristoteles* suo habet. *Marchettus* [illegible] foramen in superiori parte septi [illegible] *valvulas* [illegible] ut sanguis in dextrum [illegible] perforatum [illegible] tenue, [illegible] bensam. [illegible] septo per [illegible] vij *Molinettus* stylo pervium [illegible] *Bartholinus* experimento pertusatum [illegible] topica [illegible] Tab [illegible] *Brodbecquius*. [illegible] vena cava, canalem vel [illegible] bovis abscisso [illegible], per quam dum cor inflaret [illegible] non [illegible] culus cum [illegible] ad visum tactumque elevatur. Testis hujus observationis est *Wilh. Wormius*.

Non semper tamen in [illegible] continua agitatione cordis [illegible] videri non ita [illegible] conspicuo, sicut nec meatus manifest[illegible] [illegible] in sudore per cutem [illegible] prorumpente, nec cum semen è glandulis & vasis spermaticis in meatum urinarium erumpit [illegible] poros per quos [illegible] pyema aut sanguis ex vena [illegible] per pulmonum parenchyma penetrat [illegible] cavam. Recte *Celsus*, [illegible] quidve vivo homini est [illegible] esse mortuo. [illegible] *Columbus*, *Spigelius*, *Hofmannus*, *Harveius* [illegible] Sed non [illegible] Nam

1. Antea [illegible] penetrare queat. [illegible] tamen [illegible] conspicui in corde bovis diu elixato, ut non solum [illegible] *Bauhinus*, *Riolanus*, aliique. Notandum autem contra negantes *Hofmannum & Plempium*, in elixatione modum servandum.

[illegible] cohærere, quantum [illegible] membranam in [illegible] apparere, in [illegible] [illegible] pe- [illegible] non habet æque totam in [illegible]

[illegible] & Lungus tum ex [illegible] quando [illegible] ad [illegible] ac ge- [illegible] postea per arterias in universum corpus [illegible] & calorem [illegible] vanam ac- [illegible] condum: crassior vero & minor pars [illegible] & [illegible] nec [illegible] per venam arteriosam [illegible] pulmonibus communicatur, [illegible] vena [illegible] per septum tran- [illegible] pulmones [illegible] & ut re- [illegible] temperaturis. [illegible] per [illegible] quia coronaria [illegible] tantum perceptant, & longo [illegible] per colo- [illegible] per pulmones [illegible] evanesceret. Hac sola via [illegible] & [illegible] vivunt & reviviscunt, mo- [illegible] cessante.

An sanguis per septum cordis transeat.

[illegible] aperti sunt pori septi, suspicari possis for [illegible] pulmonum hanc a natura pro [illegible] tamen in fœtu patet [illegible] per pulmones [illegible] aperiatur [illegible] demonstrant, a- [illegible] ad pulmones lon- [illegible] ventriculis [illegible] [illegible] ex fibrarum cordis varia reflexione.

[illegible] *septi motus* [illegible] [illegible] habeo, quia [illegible] donatur æque ac parietes in [illegible] corde, [illegible] teste *Harveo*, [illegible] movebunt & [illegible] Palpitatio quam in [illegible] vivi cordis [illegible] *Walæo* [illegible] motus [illegible] ventriculi [illegible] motum sequitur, *eadem* annotante. & [illegible] motum remanere in [illegible] *Aslanus* in *Obs.* [illegible] Ipse tamen [illegible] *Riolanus* [illegible] negat, [illegible] [illegible] & ita item debere ut trans [illegible] tus, quia [illegible] ventriculus supra septum pervium [illegible] &

[illegible] altar [illegible] [illegible] & pulmones [illegible] cor, [illegible] [illegible] cor [illegible].

Vasa cordis. Vasa [illegible] caput cordis [illegible] *Hippocrates* vocat [illegible]. Dextro ventriculo [illegible] *vena* [illegible] *arteria* [illegible] *arteriam magnam* [illegible] Valvulas [illegible] *Sigmoides* [illegible] *Adjacentes* [illegible], cava & [illegible] vena [illegible] valvulas habent [illegible] *Rostriformes* [illegible] valvulis [illegible] *Tricuspides* non [illegible], sed [illegible] sanguinem [illegible] cordis [illegible] venas [illegible] *Sigmoides* [illegible] cordis [illegible] & [illegible] perfectius [illegible].

[illegible] *Triangulares* [illegible] per cavam [illegible] venam, [illegible] *Mitrales* [illegible] cordis & [illegible] itaque [illegible] vidimus [illegible] *Harveius*, [illegible] non in cor [illegible] non [illegible]; Arteria [illegible] valvulae tamen [illegible] constringuntur, corque ordinate movetur.

Cartesius [illegible] tuas [illegible] & [illegible] circa sanguinem [illegible], [illegible] venarum [illegible] constitutas [illegible]

[illegible]

[illegible] copia cor obtua- [illegible] & [illegible] ... [illegible] observarunt *Anatomici* [illegible] ... [illegible] dextro, [illegible] ... [illegible]

[illegible] ... [illegible] Nec [illegible] ... [illegible] ligamenta [illegible] ... [illegible]

[illegible] *Vasa* [illegible] ... [illegible] ... [illegible] ... [illegible] ... [illegible]

Primum autem est VENA CAVA ventriculo dextro inserta, [illegible] ... [illegible] ventriculo, ut separari nequeat. *Vena cava.*

Motum [illegible] ... *Aristoteles & Galenus* [illegible] ... [illegible] ... *Stenonius Amstelodamensis.*

Venas [illegible] ab epate & universo corpore [illegible] ... [illegible] & [illegible], praeterea [illegible] & [illegible] ex lacteo thoracico.

Circulum memoratum [illegible] ad cordis [illegible] ... [illegible] in tres valvulas membranosas. *Eius valvulae tres.*

VALVULAS, [illegible] foris intro spectantes [illegible] ... [illegible] in cavam [illegible]

Dicuntur TRICUSPIDES, Graecis τριγλώχινες, qui a tele- [illegible]

[illegible] bus [illegible] bus Sin[illegible]les sunt, quando clau[illegible] [illegible] connivent.

A[illegible] & [illegible] valvulæ, *filamentis* mu[illegible] [illegible] conspicientibus, [illegible] quibus [illegible] *carneæ particulæ* [illegible] quæ cordis ligamenta aliis dicuntur, [illegible] nervi cordis, ut *Aristoteli*; aliis musculi.

Vena ar-teriosa cur dicta? VENA ARTERIALIS vel vas arteriosum, aliis *Arteria Pulmonaria*, [illegible] est & substantia & [illegible] *Herophilo*, & [illegible] [illegible] sanguinem [illegible].

Cur ar-teriosa dicta? [illegible] I. Ob substantiam, quæ non est [illegible] duplex. II. Quia [illegible] & [illegible] obscura atque, ut capite sequente dicetur, & [illegible] quia [illegible] sanguinem pulmonibus [illegible] dextro ventriculo ex parte elaboratum.

Exortus & progres-sus Hæc [illegible] orificio e cordis ventriculo dextro, post cavæ insertionem, egreditur, major tamen quam pro pul-monum [illegible]. Observant enim *Columbus* & *Arantius* duos [illegible] maius esse debat, quia continuo cordis [illegible] cruorem recipit. Deinde Arteriæ mag-næ [illegible] sinistros [illegible] ad pulmonis pa-tes dextram & sinistram duplici ramo vergit: dextro & sinistro: qui postea in varios ramos pulmonicos abeunt, præter [illegible] versus partes posticas, ubi venis per patentes anastomoses [illegible] bronchiorum latera perreptant.

Usus *Usus* est, sanguinem excipere ex dextro ventriculo, & pulmonibus pro nutritione advehere, & juxta recentio-rum observationes, reliquum sanguinem per arteriam ve-nosam in sinistrum ventriculum cordis transferre. [illegible] in cor relabatur sanguis.

Valvu-læ & modus. VALVULÆ tres apponuntur [illegible] tunica ipsius venæ orti, [illegible] & [illegible] sig-mam, unde *semilunares*, vel [illegible] *Sigmoides* [illegible]. Habent vero [illegible] figuram La-tinæ literæ C.

Arteria venosa cur ar-teria? ARTERIA VENOSA, aliis Vena Pulmonaria, tertium cordis vas est, quod in sinistro conspicitur ventriculo. [illegible] ob officium ARTERIA. Nam [illegible] in sinistro ventriculo continua est [illegible] proprio motu, quia nec arteria [illegible] sanguinem purum. II. Sinistro ventriculo [illegible].

Cur ve-na. VENA I. ob substantiam, 2. quia in terra venæ munus

[illegible]

[illegible] & à cava quasi produ[illegible], [illegible] per [illegible] pa[illegible]tur. Imo in adulto [illegible], [illegible] cordi appositas, [illegible] cava.

Ostium orificio rotundo & magno [illegible] majori quam arteri[illegible] magna auriculæ sinistræ [illegible] per[illegible], ac si tota duplic[illegible] [illegible] pro[illegible] [illegible] & sinistr[illegible] [illegible] post ca[illegible] [illegible]

Usus.

I. In [illegible]tatione [illegible] attrahere ad Cor, non [illegible] [illegible] sanguin[illegible] ex pulmonibus [illegible] ad spiritus vi[illegible] & [illegible] [illegible] pabulum & sufflamen. Ape[illegible] [illegible] [illegible] ve[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ceciderit sinistri ventri[illegible] [illegible] receptus [illegible] vena sang[illegible] ad cor pell[illegible] non po[illegible] [illegible] trahi. Ex secta autem vel incisa art[illegible] [illegible] non comparet, [illegible] per omnia confusus. Nec [illegible] vel mortu[illegible] pulmonibus quidquam hujus obs[illegible] ad co[illegible] perve[illegible] magna [illegible] [illegible] sanguinis [illegible], deest at[illegible] [illegible] & [illegible] naturale. Sed [illegible] ad cor [illegible] [illegible] [illegible] Mer[illegible] [illegible], carbon[illegible], &c. suffocat. [illegible] [illegible] pulmones [illegible] & [illegible].

II. In contractione, [illegible] [illegible] pulmones excludere cum [illegible] [illegible] Systole [illegible] [illegible] hibent valvulæ regressum pro[illegible] ve[illegible]nosa intumesc[illegible] p[illegible] [illegible], 3. Aperta sanguinem fundit [illegible], [illegible] vero nec sanguinem nec [illegible]. 4. [illegible] per ven[illegible] a [illegible] [illegible] [illegible] & totum [illegible] [illegible] [illegible] [illegible] [illegible] insolens. Quanquam enim ab eadem parte [illegible] [illegible] attrah[illegible] & p[illegible] [illegible] ta[illegible] est diversa, præ[illegible] [illegible] vena venosa à p[illegible] [illegible] [illegible] Ergo

III. [illegible] [illegible] ex pulmonibus [illegible] [illegible]

ſtrum cordis ventriculum propellit.

Valvulæ mitrales. VALVULÆ [illegible] tum foras [illegible] ex cordis [illegible] pare [illegible] Majores [illegible] majora ipſis adnexa, quæ à baſi latiori in acumen fere deſinunt, atque roboris gratia plurimas [illegible] Subnectebant [illegible] qui minores [illegible] robuſtiores [illegible] ovale. [illegible] *Hofmanus* in cadavere vidit.

Arteria magna. ARTERIA MAGNA, [illegible] ventriculi [illegible] & oritur.

[illegible] loco, app[illegible] in homine [illegible] [illegible] ſubſtantia [illegible] [illegible] magna & [illegible] [illegible] *Harvæus*, unde [illegible] per membranas [illegible] *Schroderus*. [illegible] *Ardiius* [illegible] *Bauhinus* [illegible]

Trium valvularum. *Vſus* eſt, [illegible] a corde accept[illegible] partibus [illegible] ad nutritionem & vitam [illegible] tur tres valvulæ [illegible] quæ in vena [illegible] intus foras ſpectantes, [illegible] ſigmoides [illegible]

CAP. VIII.

DE VASORUM CORDIS FOETUS UNIONE.

In fœtu. IN cordis [illegible] vaſa, [illegible] fœtus [illegible] utero eſt. [illegible] Quod licet [illegible] [illegible] tamen pler[illegible] [illegible] aut [illegible] per canalem, quam per foramen anaſtomoſin.

Sed

[illegible] VASORUM cordis in [illegible] tum sunt duplices: *Vasa in corde unita,*

[illegible] *per [illegible].*

[illegible] Venæ Cavæ & [illegible] Veno- *Per Anastomosin.*
[illegible] cava [illegible] figuræ.

[illegible] per *[illegible]* 1. Os [illegible] 2. Os [illegible] tantum.

[illegible] in cavitate [illegible] venosæ apponitur *membranula* [illegible] & [illegible].

[illegible] *Galen.* & [illegible] per [illegible] *Foramen ovale.* [illegible] Venæ cavæ [illegible], nam non [illegible] dextro ventriculo in venam [illegible] Venosa [illegible] sed vena est sec con- [illegible], non pulmonum [illegible], vasa [illegible] vasa. Nam [illegible] Ante [illegible] At [illegible] cor [illegible] Sanguis ex [illegible] Systolen [illegible] 3. [illegible] per has Uniones [illegible], certe [illegible] possunt eodem [illegible] ex [illegible] quam [illegible], ut postea demonstrabimus [illegible]

[illegible] partem [illegible] cava [illegible] qui [illegible] le- [illegible] pro communica- [illegible] ventriculis.

[illegible] Cava [illegible] membranula apposita, quando concidit. *Usus membranæ.*

[illegible] tempore coalescit hoc foramen [illegible] pet [illegible]

 Idque

FIGURARUM EXPLICATIO.

Hæc prima F[illegible] dextram Cordis partem [illegible] mul [illegible], & Vasa ab ipso Corde [illegible], præcipue vero A[illegible] venosa, per quam [illegible] sinistrum Ventriculum defluere voluit *Foetus*.

AAA A. *Cor in sua sima, per cujus superf[illegible] cies Coronaria Vena disseminatur.*

B B. *Auricula dextra Cordis, partim dissecta, partim vero adhuc integra existens.*

C [illegible] *Auricula* [illegible], *& circularis* [illegible] *quæ a latere suo pellicu-la quadam ad instar valvulæ Anasto-mosis reperitur, hoc est foramen ovale* [illegible], *per quod F*[illegible] *transire voluit sanguinem in sinistrum ventriculum.*

D *Vena cava dissecta usque ad* [illegible] *sinum.*

E. *Vena cava Jugulam, & brachia pe-tens dissecta.*

F. *Arteria magna ascendens.*

G. *Eadem prope spinam descendens.*

H. *Tubulus Arteriosus, qui magnam Arteriam cum Venosa arteria jung[illegible].*

I. *Arteria venosa a dextro Cordis sinu progrediens.*

K. *Vena arteriosa pulmonum nutrix à sinistro sinu exiens.*

aaaa. *Vena Coronaria per Cordis superf[illegible] ciem radicatim diffusa.*

b. *Vena hujus Coronæ a* [illegible] *in Ar-teriam prope* [illegible] *Cavam.*

cccc. *Auriculæ pars quædam dissecta.*

ddd. *Altera pars adhuc integra existens.*

ee. *Stylus in Anastomosin immissus.*

f *Pellicula instar valvulæ* [illegible] *Anasto-mosi posita.*

gggg. *Rami Venæ Cavæ per Hepar dis-seminati, ac radicati.*

hhh. *Rami Arteriæ magnæ ascenden-tes.*

FIGURA II.

Altera hæc Figura sinistrum Cordis Ventriculum, nec non A[illegible] lam dissectam ostendit, simulque ex [illegible] styli in prima figura demonstratam.

A A. *Cordis incisio per universum sini-strum facta ventriculum.*

B B B. *Hujus ventriculi* [illegible] *deli-neatio.*

C. *Ex* [illegible] *styli per Anastomosin à dextra in sinistram Auriculam.*

D *Valvulæ* [illegible] *magnæ Arteriæ appositæ.*

E [illegible] *sinistra Cordis Auricula dissecta dextra minor.*

F F. *Arteria Venosa à dextro Cordis Ven-triculo exiens.*

G [illegible] *Arteria magna ascendens.*

H *Eadem prope spinam descendens.*

I [illegible] *Arteriosus Venam Arteriam cum* [illegible] *connectens.*

K *Truncus ascendens Arteriæ magnæ ad brachia & Jugulum.*

aa. *Vena coronaria pars quædam delinea-ta per Cordis superficiem dispersa,* [illegible] [illegible]

b b. *Arteria Coronaria dissecta.*

cccc *Auricula sinistra incisio, usque ad* [illegible] *Arteriosam.*

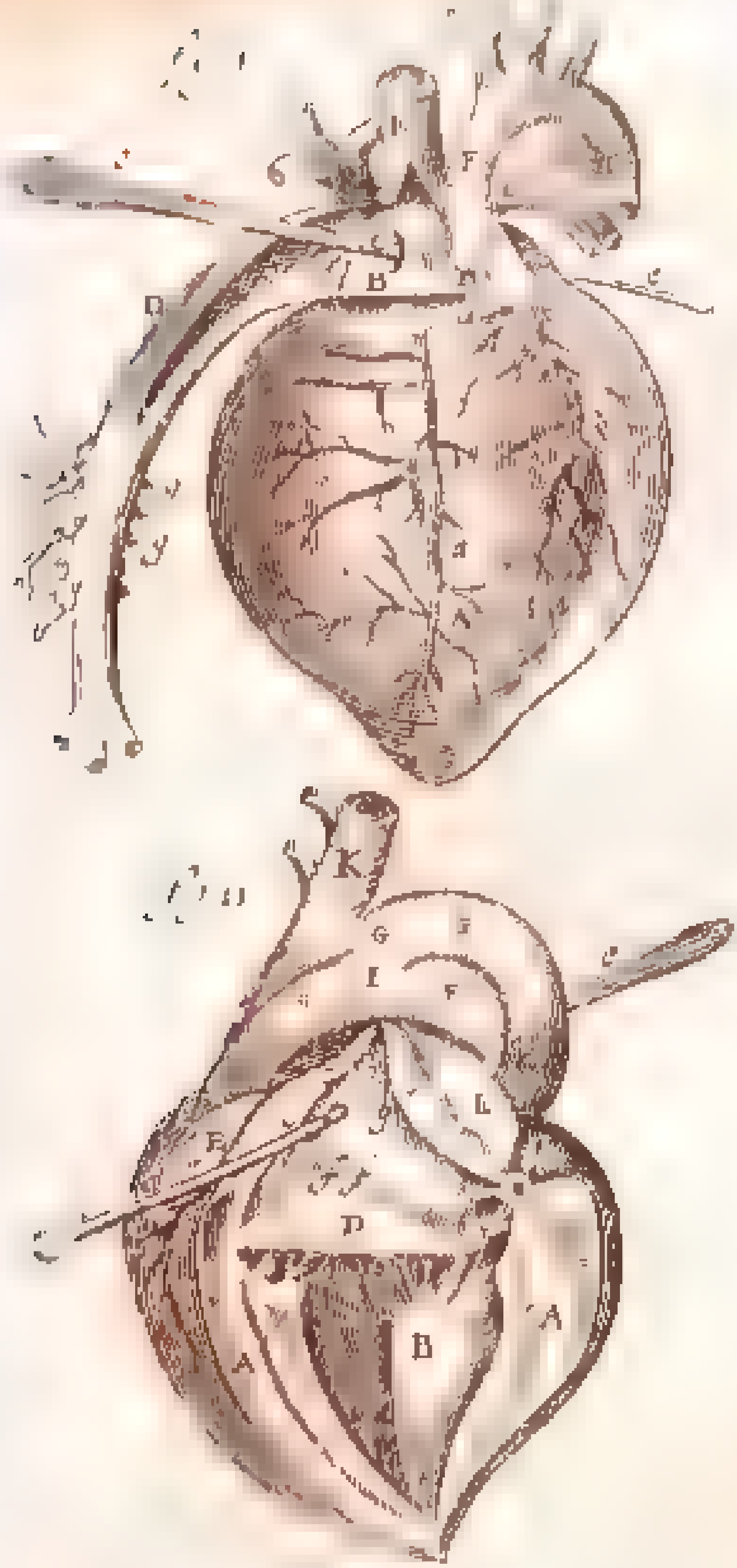
dddd *Particula quædam* [illegible] *in* [illegible] *Cordis Ventriculo,* [illegible] *Aristotele existimant.*

ee. *Stylus in Anastomosin immissus.*

fff. *Foramina quædam exigua, per quæ transire* [illegible] *sanguinem Bot.* [illegible] *Anastomosis, & minori* [illegible] *est opus.*

g. *Valvula, & in hoc latere Anastomosi apposita.*

TABULA VIII.



ACCADEMIA

[illegible] & [illegible] per parva [illegible] fuerere [illegible] clausa [illegible]. [illegible] *Pinaeus* [illegible] *Rolfinkius* & [illegible] *Marchettus*, in [illegible] *Maur. Hofmannus*. [illegible] majoribus, [illegible] alter [illegible] volunt, ut sanguis [illegible] commearet. [illegible] *Carolus Fabius* in omnibus hominibus [illegible] apertum [illegible]. Apertum enim tantum est, cum alias [illegible], ut Patavij in eo [illegible] animal [illegible] arteria phlegmate [illegible] semper patet, [illegible] desinunt. [illegible] conuvere, [illegible] foramen, [illegible] in cadaveribus [illegible], stylum [illegible] perpetuum [illegible] esse non [illegible] concedere. [illegible] hiatus tāto sanguini traducēdo.

Per canalem. Per *canalem* oblongum est altera unio, videlicet venae arteriosae, & arteriae magnae, [illegible] distant.

Haec unio extra cor est [illegible] venae [illegible] per [illegible]. [illegible] ad arteriosam [illegible] valvula [illegible] potest. [illegible] potius quod a dextro ventriculo cordis, per venam arteriosam [illegible] sanguis, non ita autem ex sinistro per arteriam venosam [illegible] partem, [illegible] videretur, quatum [illegible] canalis.

Qui exsiccentur. In [illegible] annorum [illegible], sed non perfectos, in adultos tandem paulatim [illegible] & siccatur, [illegible] propter vitae & nutritionis absentiam [illegible] &

[illegible] [illegible] ex *Galeni* [illegible] spiritus vitalis ab arteria [illegible] in arteriam magnam [illegible] venam arteriosam [illegible] & [illegible]. Sed in Pulmonibus [illegible] arteria magna [illegible], nihil [illegible] est, [illegible] pro solis spiri-

tibus

[illegible] His solis pulmones in fœtu rubri non [illegible]

[illegible] *Harveo* & *Hofmanno* [illegible] sanguinem [illegible] Quæ vera [illegible] commodum consistent.

[illegible] *Harveo*, ut sanguis [illegible] delapsus per [illegible] maxima [illegible] pars ad aortam, ut [illegible] totum corpus [illegible] & [illegible] vero ejus portio ad pulmones [illegible] adscendat consueta via.

[illegible] sanguis fœtus, ac sui [illegible] & [illegible] moveantur, [illegible] *respirationem* [illegible] 1. *Hippocra-* [illegible] & [illegible] 2. [illegible] 3. Non-nunquam vagitus auditus, quod exempla in *Histor* [illegible] 4. [illegible] antequam excl[illegible] 5. [illegible] ex utero, [illegible] movet fœtus, [illegible] 7. Ob [illegible] partum.

Fœtum respirare probatur.

[illegible] *unde aerem hauriat*, respondemus, non per [illegible] *Galen.* [illegible] *materiam* a thorace [illegible] palpat, nec [illegible] Sed per *poros membranarum* [illegible] accedente aere in liquore, cui innatat, contento.

Unde aerem hauriat?

[illegible] autem quoque in pulmonibus fœtus perfici, [illegible] generatur sanguis, & organa perfecta, [illegible] 1. Sanguis [illegible] putresceret. 3. Sanguis [illegible] 4. Sanguis in reliquis [illegible] fœtus cor- [illegible] 5. [illegible] ligatura.

Circulatio in pulmonibus fœtus.

[illegible] perfecta quoque sunt.

[illegible] aut [illegible] per [illegible] non [illegible] sed per [illegible] Chylus enim in [illegible] per [illegible] ejus lacteum ad cor [illegible] deinde

Quomodo pars

FIGURARUM EXPLICATIO

Vasorum Cordis in fœtu Uniones, Cor item pulmonibus cinctum, atque asperæ arteriæ ramuli ostenduntur.

FIGURA I.

A. *Cor.*
B. *Vena cava truncus adscendens.*
C. *Ejusdem truncus descendens.*
D. *Arteria magna truncus adscendens.*
e. *Arteria axillaris.*
f. *Truncus arteriæ magnæ descendens*
g. *Auricula dextri ventriculi.*
K. *Anastomosis prout in vena cava apparet.*

FIGURA II.

A. *Corculum.*
B. *Truncus arteriæ magnæ e corde emergens.*
C. *Portio ejusdem arteriæ deorsum vergens.*
D. *Vena arteriosa è corde procensa.*
e e. *Canalis inter venam arteriosam & arteriam magnam.*
f f. *Exortus arteriarum carotidum.*
g. *Principium arteriæ subclaviæ dextræ.*

FIGURA III.

A. *Nervus sexti paris dexter ad pulmones vergens.*
B. *Nervus sinister.*
C. *Ramus inter utrumque nervum medius.*
D. *Propago ejusdem quæ fertur ad pericardium.*
EE. *Arteriæ asperæ rami duo majores, posterius membranosi.*
F F. *Pulmonum pars postica.*
G. *Membrana pulmonum propria.*
HH. *Portio pericardij rejecta.*
I. *Cor in suo situ.*

FIGURA IV.

Asperam arteriam Vituli a postica parte denudatam à pericardio, ... vena arteriosa & arteria venosa cum ... descendente a corde detruncata, & arteriam bronchialem demonstrat ex F. Ruyschio.

A. *Aspera arteria vituli a postica parte abscissa larynge.*
B. *Ramus dexter.*
C. *Ramus sinister.*
D. *Arteria Bronchialis cujus ramuli bronchia ad finem usque comitantur*
E. *Arteria descendentis à corde detruncata pars postica à qua intercostales proveniunt.*
.... *Abscissi trunculi intercostalium.*
F. *Summus Ramus quem in nullis animalibus quam in Vaccis & Vitulis inveni.*

III
fig. I
IV
II
A
B
C
D
E
F
H

deque sanguis [illegible] ad pulmones ordinaria via. Atque pulmon [illegible] motus [illegible], ne destituatur foetus cordis motu sufficienti & necessario [illegible], jam majori, per anastomosin canalem peculiarem transfretationi succurritur. Juvat igitur in adulto foetu pulmones anastomosis & canalis, & in omni foetus aetate.

[illegible] canalis anastomosin [illegible] cordis sanguine [illegible] cendo, [illegible] alterutra via [illegible] alioquin fo[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] anastomosis [illegible] [illegible] [illegible] [illegible] pulmones, [illegible] corpus Hoc [illegible] per [illegible] aorta [illegible] distribuatur. Non à matre venit per iliacas ar[illegible] non [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in arteriae umbilicales a foetu [illegible] corporis juxta placentam [illegible] sanguis in foetu post ejus nutritionem per iliacos ramos ad placentam recurrit tanquam partem [illegible] quae iterum in venas umbilicales [illegible] & [illegible] ad hepar [illegible] [illegible] [illegible]. Contrario [illegible] [illegible] [illegible] in aortam ob [illegible] & ob [illegible] infectionem. Igitur cum sanguis arteriosus per [illegible] [illegible] ad cor ex matre non feratur, neque [illegible] [illegible] [illegible], sed proprio foetus sanguine quem ex propria coctione conficit.

CAP. IX.

DE PULMONIBUS.

Etymol. PULMONES Graecis [illegible] vel [illegible] à respiratione [illegible] dicuntur, quia [illegible] [illegible] & [illegible] respirantibus dati sunt, piscibus [illegible] collo & voce carentibus.

Situs. *Siti* sunt in pectoris vel thoracis cavitate, [illegible] [illegible] [illegible] [illegible] [illegible] dominus [illegible] notante *Io. Labro.*

Divisio. *Dividitur* pulmo in partem dextram & sinistram [illegible] [illegible] [illegible] ut una parte [illegible] altera [illegible] officium

In lobos. faciat. Harum quaelibet in duos *lobos* dividitur, circa [illegible] thoracis vertebram, [illegible] superiore [illegible] breviori [illegible] [illegible] in tres, sicut in [illegible], [illegible] homo [illegible] [illegible]

[illegible] ob thoracis bre- [illegible] & [illegible] figura [illegible] Septimi [illegible] *Petr. Lomnineo, Riolano & mihi,* [illegible] *Hippocratem & Rufum Ephesium* tres observati fue- [illegible] *manus,* [illegible] tres lobos deprehend[illegible] [illegible] pulmones amplectantur. [illegible] ad thoracis cavi- [illegible] gibbi sunt, internè [illegible] cavi, ubi cor am- [illegible]tur. **Figura.**

Color [illegible] in foetu [illegible] rubens ut epatis [illegible] ob alimentum, [illegible] ex pallido fla- [illegible] *Russa* [illegible] ægro- [illegible] In [illegible] per fibras, rubeus. **Color.**

A [illegible] tatem coloris in foetu reperiunt, [illegible] ab aëre dilatati albedinem induant in in- [illegible] vero à sanguine in exspiratione. Unde *Harvejus* [illegible] suggerit [illegible] an [illegible] peperetur, illico enim ab inspirato aëre [illegible] Semper tamen albedinem tam in foetu [illegible] *Charleton.* In nuper nata flavet [illegible] non rubrum. Et talis esse debet, [illegible] resonat. In errorem *Galenus* cæteros [illegible] ab *Hippocrate* de[illegible]

Connexio [illegible] per mediastinum, po- [illegible] ad latera cum pleura per fibrolos [illegible] connascuntur pulmones, unde dyspn[illegible] [illegible]. Medicos vero non raro decipit ista con- [illegible] thoracis vel aera minime agnoscentes. *Nic. Massa* [illegible] cordi utilem censet, ne pul- [illegible] aut spirandi facilitas impediatur, [illegible] tempe[illegible] sic testatur *Riolanus.* [illegible] costas id præsertim annotavi prope dia- [illegible] Alii dicunt fibris alligatum [illegible] thoracis, licet debiliori motu, [illegible] *Hippocrates* 2. de morbis, vo- [illegible] sum, sitque hoc vel ab ortu, vel [illegible] tenacem & viscidam se [illegible] causa externa, ut curatione nega- [illegible] thoracis. Cohæret etiam pul- [illegible] nosam & arteriam venosam. **Connexio.** **Dyspnœa diuturna causa quædam**

Substantia [illegible] nonnihil & crassior, adeo [illegible] quam in adultis evenit. At post **Substantia.**

FIGURARUM EXPLICATIO

Ex Epistolis de structura & usu Pulmonum *Marcelli Malpighii.*

FIGURA I.

Frustulum extimum Pulmonis exsiccati continens delineatum rete.

FIGURA II.

Internae Vesiculae & sinus adumbrati cum appensa particula interstitii in parte superiori, caeterum exortus & integra propagatio icone oculis subjici non potuit.

FIGURA III.

Loborum varia adaptatio supra tracheam & pulmonaria vasa, qui etiam à naturali situ distracti exhibentur ad faciliorem intelligentiam.

FIGURA IV.

Ranarum Pulmones cum appensa trachea exhibet, ubi

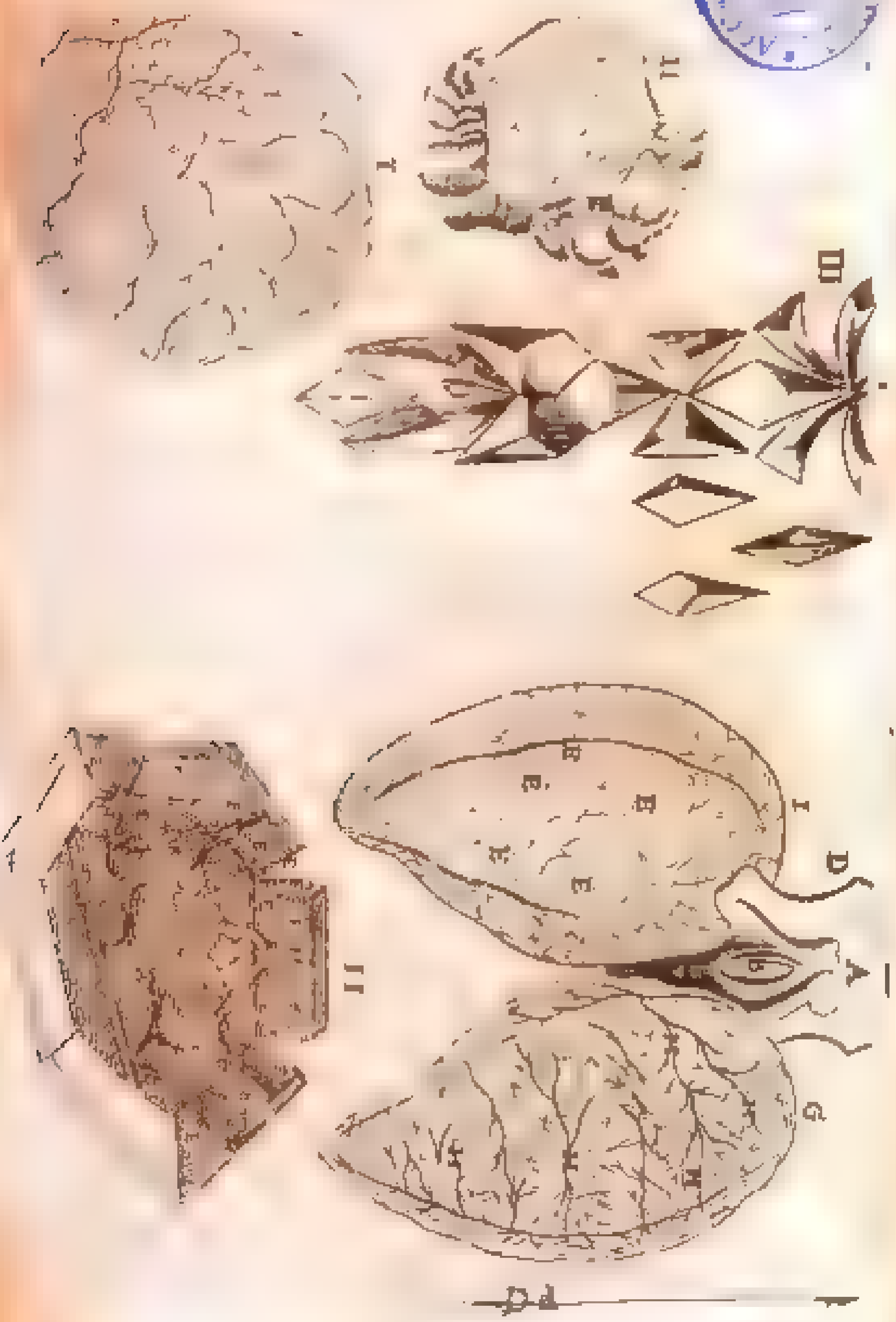
A. *Larynx quae semicartilaginea est.*
B. *Rimula quae exactissime clauditur & aperitur ad animalis arbitrium & clausa aere turgentes servat pulmones.*
C. *Cordis situs.*
D. *Pars exterior Pulmonis.*
E. *Cellularum propaginum rete.*
F. *Arteria pulmonaria propagatio*
G. *Pars concava pulmonis per medium scissi.*
H. *Vena pulmonaria parietum apices excurrentis propagatio.*

FIGURA V.

Continet Cellulam simplicissimam absque intermediis parietibus auctam in magnitudine.

A. *Cellulae area interior.*
B. *Parietes diversi & inclinati.*
C. *Arteria pulmonaria truncus, cum appositis Ramis quasi reticulato opere desinentibus.*
D. *Vena pulmonaria truncus parietum fastigia penetrans suis decurrentibus ramis.*
F *Vas in fundo & angulis parietum commune lateralibus & continuatis retis ramificationibus.*

Tabula X.



[illegible]

[illegible]

[illegible]

sim collabantur, aeremque facile recipiant, qu[illegible]

[illegible] Jo. Al[illegible]

[illegible] *Helmontius* [illegible]

los in orthopn[illegible] vocat *Saimeh*. [illegible]

[illegible] *Valensus*, *Julianus*, *Ag[illegible]*, [illegible]

exempla meminimus.

[illegible] *Malp[illegible]*

[illegible]

[illegible] & [illegible]

[illegible] *fruum* & [illegible]

[illegible]

desinant in continentem membranam, *colliga*[illegible]

[illegible]

[illegible]

[illegible]

[illegible] videatur & [illegible]

[illegible]

[illegible] nomen ab [illegible]

[illegible] *Hippocrates* [illegible]

[illegible] *Hoppelantio* [illegible]

[illegible]

[illegible] & [illegible] *De Pulm.*

[illegible] *Faber* [illegible]

Membrana [illegible] pulmo tenui[illegible]

[illegible] pulmone [illegible]

[illegible] *Jo. Vaseus*, [illegible]

[illegible] *Plemp[illegible]* [illegible]

[illegible] vesiculam [illegible]. Hinc [illegible]

[illegible] &c. [illegible] per [illegible] & [illegible]

[illegible], & [illegible] penetrare [illegible] &

[illegible]

[illegible] quod contra *Riolanum* [illegible]

[illegible] pulmo [illegible]

[illegible]. Non [illegible]

[illegible] contra *Helmontium*, nec aer attractus [illegible] thoracem

[illegible] non [illegible] animal [illegible]

[illegible]

[illegible] *Manuphar* [illegible]

[illegible] probat *Pecquetus* [illegible]

[illegible] vulnera non impediant respirationem. [illegible]

Margin notes: *E[illegible] [illegible] Pulmo-gine.* — *Mem-brana.*

[illegible] acr ad- [illegible] ratur. Hac [illegible] Nam cum va- [illegible] ituant, [illegible] altera invenit.

Vasa [illegible] tantis pulmonis triplicibus intertexitur vasis, non parum etiam ad robur facientibus. Duo a corde ve- niunt, de quibus supra dictum: *Vena arterialis* seu arteria [illegible] & *arteria venalis* seu vena pulmonica. *Vasa.*

[illegible] videlicet *Trachea* sive aspera di- cta arteria, de qua sequenti capite.

[illegible] venæ pneumonicæ ad pulmones *Riolanus* [illegible] à *Sammichelo* olim observato: de alio quoq; *Bartholinus* apud Moslin[illegible]. Hanc venam non semper reperiri [illegible] negat *Rolfincius*. [illegible] illa arteria habet a *Ruyschio* inventam, modo ejus perpetuitas in homine quoque de- [illegible]. *Arteriam bronchialem* vocat *Ruyschius*, quæ [illegible] *Ortum* [illegible] dextra parte, [illegible] cotta- [illegible] etiam quo- [illegible] latitudine supra arterias modo dictas, non- [illegible] cas. Usus novæ [illegible] est juxta [illegible] *Ruyschium*, ut pulmonibus sanguinem [illegible], perfectiorem [illegible] communicet. [illegible] solo [illegible] ramulos in [illegible] sanguine [illegible] eltan- [illegible] *Sanguinem* [illegible], juxta [illegible] parte, at- [illegible] sex vé- [illegible] perfe- [illegible] destituerentur, nisi à pulmonibus ipsis perficeremus, [illegible] cordis facem sufficere pro [illegible]. [illegible] existimat pulmones non cor [illegible] arteriolum [illegible] fa- [illegible] sicut [illegible] & [illegible], *Kerckringio* [illegible] additione. [illegible] tionem arteriæ hujus vide suo loco. *Vena Pneumonica.* *Arteria Bronchialis.* *Ejusque Usus.*

V[illegible] sæpe copia san- [illegible] cartilaginosa substantia. Imo ipsa vasa [illegible] & duo exempla habet *Tul- pius*. S[illegible] mors extinguuntur, q[illegible] majoribus effuso sanguine cor obruitur.

Cur Pulmo vasa habent adeo magna

[illegible] per [illegible] septi poros [illegible] bi [illegible].

1. [illegible] ampl[illegible] fuit. [illegible] est, [illegible] eadem via [illegible] in convexa [illegible] sanguini obsistentes.

2. [illegible] pulsu cordis [illegible] magna [illegible] pulmones [illegible] & [illegible] ad [illegible], quod [illegible] loco.

3. [illegible] vena arteriosa [illegible] venis, [illegible] pulmones [illegible], arteria venosa contra pulmones qua spectat, tumet, qua cordi inseritur est [illegible].

4. [illegible] cordis sinistro ventriculo, vel arteria [illegible] sanguis [illegible] & [illegible] totius corporis. [illegible] tantum in corde non [illegible] ex pulmonibus per [illegible] venosam, quæ [illegible] venosa per anastomoses hauserat.

5. In arteria venosa, [illegible] vivi animalis [illegible] cadavere tantus sanguis reperitur, ut non [illegible] cantem [illegible].

6. Valvularum [illegible]. Vena arteriosa [illegible] cens ex corde ad pulmones, [illegible], plane est aorta [illegible] [illegible] & valvul[illegible] [illegible] cavæ [illegible] ventriculo, & valvulis tricuspidibus.

Quomodo per Circulationem in pulmone.

[illegible] [illegible] per pulmones *Circulationem.* [illegible] undiquaque [illegible] [illegible] stantibus [illegible] tardatur motus [illegible] plane celatur. Situs vasorum pul[illegible] [illegible] loco pul[illegible] convexa parte [illegible] a cordis pulsu fortius impel[illegible] [illegible] parrem occu[illegible] [illegible] sæpius. Inter quæ media [illegible] diu:

[illegible] nexi, [illegible] [illegible] com- [illegible] autem [illegible] in cadavere [illegible] porosius [illegible].

[illegible] observat *Posteriores* [illegible] *Malpighius* [illegible] pul- [illegible] *Columbus* [illegible] extrema [illegible] & *Harveus* [illegible] [illegible].

[illegible] adversant se.

1 [illegible] pulmones, [illegible] per partes sanguis labitur.

2 [illegible]

3 [illegible] contra [illegible].

4 [illegible] unde [illegible] malorum [illegible].

5 [illegible] per pulmones [illegible] vel [illegible] vel [illegible] pulmonem et postea ma- [illegible] vapores [illegible] pulmone [illegible] vena [illegible], [illegible] in sangui- [illegible] & postea [illegible] ventricu- [illegible]. Sed de [illegible] sanguinis [illegible] non constat, nec [illegible] vapor [illegible] pul-

Summaria objectiones contraria.

monem

monum obstruatur, sed sangui[illegible]

[illegible]

Lymphatica. *Lymphatica* vasa habent. [illegible]

[illegible] membranam [illegible]

& in cordi[illegible]

[illegible]

[illegible] exprim[illegible]

[illegible] cum chylo [illegible]

[illegible]

[illegible]. In ramos lymph[illegible]

[illegible] in venas [illegible]

ut [illegible] contra *Bilsium* [illegible] *Riolanus*.

Lacteis an nutriantur pulmones? *Lacteus Thoracicus* ad [illegible]

[illegible]

[illegible]

[illegible]

degustatus est [illegible]

Lac alimentum [illegible] conven[illegible]

[illegible]

[illegible] & aquo[illegible] est portio quam natura secernit & expel-

lit. [illegible] pulmon[illegible]

[illegible] substanti[illegible]. De parte [illegible]

[illegible] corde [illegible]

ceteræ partes [illegible]

[illegible] chylo [illegible]

[illegible] *Hargoterum*,

seu aquam [illegible]

[illegible] lymphatic[illegible].

Cur ulcera pulmonum sine dolore fiant? *Nervos* ex[illegible] a sexto pari [illegible] cuius [illegible]

guntur quæ [illegible] inflammatione, dolo[illegible]

& dolor [illegible] non ita molle, pro[illegible]

vaceris per substantiam [illegible]

pulmonum ulcera absque [illegible] nam & [illegible]

su[illegible] pulmonum nervos plurimos assignat *Riolanus*

ex [illegible] & [illegible] nervorum [illegible]

deductos. [illegible]

[illegible]

[illegible] ex *Riolano*. [illegible]

[illegible] perveniat. Nam ex [illegible]

[illegible] pulmon[illegible]

tur, cum post mutuam communicationem [illegible]

stomachi [illegible] & [illegible]

[illegible] & [illegible] per plures [illegible]

[illegible]

[illegible]

V[illegible] tamen [illegible] quia [illegible] materia [illegible] perpetuo [illegible] expellitur [illegible] *Regelandus* [illegible] Caeterum [illegible] commun[illegible] dicere. An [illegible] propria vi moveantur pulmones, [illegible] ab aliis, [illegible] quaeritur. *Averroes*, quem ex recentioribus [illegible] *Paterus, Sennertus, Barlaeus*, [illegible] *D. Hortius* [illegible] propria vi moveri, nec [illegible] aeris [illegible] lente [illegible] motum [illegible] perpetuum.

[illegible] pulmones [illegible] respiratione [illegible] Nam [illegible] *Averroes* [illegible] respirationem modo in [illegible] modo [illegible] cardamus: Organis quo[illegible] motus proprius deficiunt. [illegible] que [illegible] motus thoracis & diaphragmatis [illegible] [illegible] & [illegible] motus aperit [illegible] poros & [illegible] causa [illegible] ventilatio, per interim [illegible]

Contra Aristotelicos Nec motus proprie pulmo a corde accipit, ut sanguinis pulmo, ut olim crediderunt *Aristoteles* & eius sequaces [illegible] *Duretus, Caesalpinus, Hofmannus* quia 1. effluxus sanguinis ex corde fit ordinario motu, respiratio vero est voluntaria. 2. Eadem esset causa pulsus & respirationis [illegible] que heretat at 3. [illegible] respirationis [illegible] vel ad inspirandum & inspiratum autem [illegible] in [illegible] memus, ad expirationem nos cogere [illegible] pulmones [illegible] tamor, quam [illegible] thoracem secundum illo. 4 [illegible] cordis in pulmonibus [illegible] moveatur inaequali [illegible] [illegible] continuo secundum naturam [illegible] 5. Ubi maxime notatur in male affectis pulmonibus, [illegible] respirationis vel [illegible] parit, [illegible] pulmonem. 6. In forti Apoplexia [illegible] pulsu & corde [illegible] motus pulmonum cessat. 7. Animal a [illegible] corde respirare [illegible] *Columba* teste, & [illegible] expirationem [illegible] *Gasp. de los Reyes*. 8. [illegible] pulmo [illegible] [illegible] motum valde obscurum videbis [illegible] [illegible] praeter vasa [illegible] cor laxo [illegible] ex *Aristotele* [illegible] observavit *Jo. Fabri*. Excluso enim corde, [illegible] per [illegible]

[illegible] tempore in tenere [illegible] gebant. Et p [illegible] [illegible] perforato, [illegible] tamen [illegible] [illegible] Quamvis permaneat in aperto, per [illegible] thorace [illegible] Pulmonis [illegible] non tamen expandi pulmones recte observat [illegible]

[illegible] prorsus tamen excludendum est, sed concurrere [illegible] ad respirationem, [illegible] licet naturalis ad voluntariam [illegible] gaudeat. Movetur thorax & diaphragma [illegible] vel corpori & cardi [illegible] Quæ proposito est inter utrum [illegible] [illegible] systolen & [illegible] interprete Galeno [illegible] plena est systole [illegible] [illegible] non est [illegible] proportione [illegible] Observavit Mauroceratus [illegible] trachea [illegible] præcedente, statimque [illegible] gravi [illegible] pulmo [illegible] reciprocationem per [illegible] & in [illegible] arteria [illegible] atque [illegible] sanguinem petentem [illegible] hac [illegible] quod in exspiratione sanguis [illegible] [illegible] in inspiratione [illegible] compressus & admoto [illegible] consequenter respirationem agere [illegible] [illegible] vivere, [illegible] cessante respiratione [illegible]

Nec a nervorum influxu cerebri pulmo movetur [illegible] ex [illegible] ad molem pulmonum conferantur. [illegible] hic voluntarius non est, ut aliorum musculorum. [illegible] Vesalius Pulmones nempe [illegible] mo- [illegible] concipere, & nervorum ope [illegible] [illegible] exercere, ac systolen & diastolen [illegible] [illegible] necessitatis [illegible] cum vero de- [illegible] pro [illegible] requiritur, ideo diaphragma & [illegible] pulmonem [illegible] incurrere, ut res- [illegible] perficiatur. Necessarium nervum esse oculi testan- [illegible] illo [illegible] motum statim universum cessare [illegible] Jo. Theod. Schenck.

Cor quomodo concurrat

Nervos non movere.

[illegible] pulmo elevatur pulmo, quando elevatur [illegible] non habet, per [illegible] [illegible] toto [illegible] arbitra [illegible] A Falcoburgius & Carcanus, cumque [illegible] Hogelan- dius, [illegible] Pereant [illegible] voluntas exercentur, quod [illegible] Galenus, qui pro attractione, quam [illegible] & pulmones puris in fœtu attrahunt [illegible] [illegible] cum pellicis [illegible] [illegible] autem tum demum trahere incipiunt, quando ad

Opinio Falco- burgii.

[illegible]hendam [illegible] & [illegible]. [illegible] pectus [illegible] [illegible] ipsi [illegible] pulmonem [illegible] servand[illegible] [illegible] quam pelle [illegible] [illegible] locus [illegible] necessario, si [illegible] aer [illegible] [illegible] vel in [illegible] voluntas per thoracis [illegible] attractio oris [illegible]. 5. Aer facile condensari potest [illegible] mentis [illegible], ex [illegible] [illegible] [illegible] [illegible] vento [illegible] *Bartholin* [illegible] com- [illegible] & [illegible] unde & [illegible] cōpress[illegible] [illegible] poderi [illegible] calefacta [illegible] [illegible] ab interna [illegible] [illegible] & pe[illegible] [illegible] se recolligenda [illegible] [illegible] quo major [illegible] condensari pote[illegible] cum pel[illegible] condensaretur [illegible] a thorace [illegible] ex vacuis localis aetherea materia. 6. In p[illegible] [illegible] constrictio & condensatio de loco [illegible] plex compressio, quam facile patitur aer propter [illegible] substantiae [illegible], sive por[illegible] [illegible] spaciorum, quae [illegible] aetherea [illegible] hoc expulso [illegible] aer minus spac[illegible] occupat, & [illegible] contrahit. Non repugna[illegible] re[illegible] aer [illegible] [illegible] [illegible] [illegible] materia, quae [illegible] aerem con[illegible] [illegible] contrahend[illegible] thoracis aut [illegible] corpor[illegible] [illegible] [illegible] agitata. 8. Manifesta experientia [illegible] Per foramen in [illegible] omnibus [illegible] [illegible] [illegible] obturat [illegible] naribus [illegible] [illegible] [illegible] [illegible] posituras, ad quem non est credibile aerem [illegible] race motu, valido motu perveniret, & quamquam [illegible] & fissuras in cubiculum penetret aer, tantus tamen [illegible] ut thoracem, quantum sufficit, in libera respiratione [illegible] stendat. Idem experimentum in vitreo vel [illegible] fiat, arcte ori applicato. Neque [illegible] materia [illegible] transire volet parietem [illegible] cubiculo, vel [illegible] [illegible] soliditatem in vasis argenteis, neque [illegible] respirationem foret sufficiens. In organo vitreo [illegible] quamquam aether remaneat, exhausto tamen aere [illegible] tur animalia convulsionibus. Ex subtilem aerem [illegible] suprema aeris regione in altissimis montibus [illegible] [illegible] cum respiratione hominis habere proportionem [illegible] exemplo monstrat *Josephus Acosta*, qui in montibus [illegible] [illegible] fere cum [illegible] [illegible], nisi in crassiorem aerem descendisset. 9. Respiratione cohibita moveri abdomen

[illegible] experti [illegible] ubi pell[illegible] [illegible] corpo[illegible] sunt plena, proximos ab- [illegible] comprimentes.

[illegible] *Pecquetus* aeri spontaneam vim se dilatandi concedit, quam *Elaterem* vocat. *Boyleus* [illegible] sponte [illegible] aerem propter *spiram* sua[illegible] dila- [illegible] [illegible] tan- [illegible] pulmo a thorace est [illegible] Quod [illegible] ap- [illegible] [illegible] quæ attracti[illegible] [illegible] [illegible] aperto ore, sine motu thoracis respiraremus. **De aeris Elatere.**

[illegible] *Fr. Sylvii* experientia, quamvis patente [illegible] thorace [illegible] [illegible] & fauces [illegible] [illegible] observantur expandi exsic- caríque Pulmones.

[illegible] alia [illegible] *Jo. Swammerdamius*. Ape- [illegible] asperam arte[illegible] [illegible] eamque [illegible] [illegible] [illegible] ventriculi canini post inflationem ex- siccati pylorus cum intestini portione præparatus, erat [illegible], atque circum[illegible] [illegible] arteriam prædictam [illegible] [illegible] arcte constrinxerat. Unde mox per [illegible] [illegible] ventriculum respiratio[illegible] [illegible] omnis perfic[illegible] [illegible] eundem ventricu[illegible] [illegible] o- phago [illegible] [illegible] ventriculum valde disten- dit, ac [illegible] [illegible], monstravit, quomodo a[illegible] [illegible] thoracis [illegible] elevatione pulmones [illegible] ac foveam notabilem [illegible] di- [illegible] ventriculo, & versa vice. [illegible] instrumentis & [illegible] [illegible] effic[illegible] aerem expulsum [illegible] iterum per circulum demonstrat.

[illegible] [illegible] & aquam & aerem moveri observamus, [illegible] pellatur vel attrahatur, non constat æque manifeste. [illegible] apparatu mitra coriacea rotunda ori arcte app[illegible] [illegible] in pulmones videmus. In inspiratione enim [illegible] [illegible] in expiratione, aere iterum [illegible] Intra [illegible] fit aeris circulatio, nec ab extra aer [illegible] thorace pressus quia densius corium. Negatur [illegible] cum externo commercium obice interjecto, ut [illegible] *Fr. Sylvio* dicamus, priora experimenta no- [illegible] mentem [illegible] *Swammerdamii*.

[illegible] thoracis motum ad fugam vacui sequitur: [illegible] aerem [illegible] tantum recipit, quia thorax se di- [illegible] pulmonem complet.

[illegible] motu a [illegible] abesse experientia constat. Nam [illegible] thoracem penetrante vulnere in utroque latere vel **Motum pulmonis**

[illegible] thorace [illegible] proba-tur

[illegible] foris [illegible] pulmo [illegible] per [illegible] sicut [illegible] [illegible] ex corpo[illegible] Si [illegible] vel [illegible] thorace, motus pulmonum per[illegible] [illegible] alterum [illegible] [illegible] possit penetrare vel [illegible] O[illegible] *Fr* [illegible] in [illegible] [illegible] vulnus [illegible] cari, nisi vulnere iterum occluso [illegible] aper[illegible] [illegible] lunt. Vide inter alios *Jo. Vigerium.* [illegible] *Hegmoris,* vulnerato vivi canis pectore, [illegible] bos in isto [illegible] & [illegible] thorace & lobis alterius mediastini [illegible] S[illegible] diaphragma vivi animalis levi vulnere per[illegible] p[illegible] thorace [illegible] Hinc monet *Santorellus* quod [illegible] [illegible] [illegible] bo[illegible] cyathu[illegible] aqua[illegible] ventricu[illegible] & cyathu[illegible] si vivat animal, quod tamen [illegible] abdom[illegible] quo posset evenire. A[illegible] diaphragmate [illegible] [illegible] *Gassendus,* & ex [illegible] *Barleton,* [illegible] [illegible] R[illegible] *Barleus* [illegible] diaphragmate [illegible] [illegible] *Galenus* est [illegible] [illegible] thorace [illegible] moveatur [illegible] in thorace [illegible] bus per[illegible], simul pereat [illegible]. Ex [illegible] a [illegible] *Fr.* [illegible].

Obser-vatio in vivis

S[illegible] est quod magnos [illegible] impedit, quo [illegible] hac causa motus pulmonis [illegible], quo [illegible] aperto thorace, pulmones & d[illegible] saepe & satis vehemen[illegible] movebantur. [illegible] *Jo. Walaeus Fr. Sylvius & Fr.* [illegible] *Vander Schragen,* [illegible] motus non est [illegible] & [illegible] pulmones, quasi pulmon[illegible] naturalis [illegible] motus [illegible] & [illegible] loco [illegible] motus accide[illegible] quod pulmo [illegible] diaphragmate [illegible] & pulmones quoque diaphragmati [illegible] contingit valido adhuc animali, pro motu diaphragmatis

pul

[illegible] vel [illegible] diaphragmate needum [illegible] quod [illegible] *Harfis* [illegible] [illegible] [illegible] a diaphragmate [illegible] thoracem [illegible] & [illegible] thorace [illegible].

Pulmones an primi?

Pulmones in respirationis actu primos esse probat [illegible] [illegible] pracipue [illegible] & pro [illegible] [illegible] alterari solet. At vero ipsi pulmones [illegible] sanguis è corde ebulliens perstrans[illegible]. Pulmones ab [illegible] & [illegible] proportionatis [illegible] mo[illegible] & [illegible] tussi vehe[illegible] propter [illegible] [illegible] In respiratione anhela, suspiriosa, [illegible] [illegible] [illegible] [illegible] [illegible] excitantur, etiam pulmones [illegible] [illegible] diaphragma [illegible] orditur, pulmones cachinno [illegible] [illegible]. Injurias recipit a costis [illegible] & [illegible] in Plenitude, [illegible] [illegible] *Pulmonem* in respiratione [illegible] *Rembrchius*. Quia vero [illegible] respirationis, hinc sequentes habet.

Usus.

Usus I. [illegible], *Galeno*, & *aliis* Sinu esse cordis [illegible] [illegible] & [illegible].

II. Alius ex *Columbo*, ut præparet & pene generet vita[illegible] [illegible] postea in corde perfi[illegible], dum [illegible] [illegible] circulatur, fervore a corde [illegible] & [illegible] aëris subtilens. *Platerus* quoque [illegible] spiritum vitalem ex aere & sanguine [illegible].

III. Magis proprios usus habet dum [illegible], dum cum constringitur.

[illegible] quivis aerem spiritui humano esse amicum.

Dum dilatatur, recipit instar follis aerem per trache[illegible].

I. Ad aerem cordi præparandũ pro spiritus [illegible] no[illegible] [illegible]. Non enim qualibet aeris qualitas [illegible] tui nostro amica est, uti videre est in iis, qui [illegible]untur

ex

ex carbonum fumo, item in ædibus calce nuper illi[illegible]

Aerem spiritui cordis convenire putat *Hoffmannus*, & [illegible]

[illegible]

Aer utrum pulmonibus moveatur? [illegible]

[illegible] vasorum aërem in *Diatriba* suspicatus sum. [illegible] retentum aërem excernendum [illegible]

[illegible] videmus magnam sanguinis copiam pro voluntate [illegible] & [illegible] corporis calor.

Calorem nostrum indigere frig. ae. P. cur pulmonibus non egeant? In anteriorum morte aestimantur. II. An caloris [illegible]

[illegible] ad

[illegible] commoditatem. [illegible] enim loco vesiculam [illegible] membranosam flatu repletam habuit puer Annos [illegible] natus quatuor annorum, teste *Nic. Fontano* Medico [illegible] qua [illegible] originem suam ab [illegible] reperiebat. Q[illegible] quia forsan non satis copiosus aer cordi subministrabatur, marasmo obiit.

Dum constringuntur [illegible] in exspiratione, iterum duplici [illegible] praestat: I. *Fuliginosa* excrementa per eam [illegible] a corde per venam arteriosam cum sanguine ela[illegible] II. A[illegible] vocem articulatam in homine, in brutis inarticulatam [illegible], quatenus dat spiritum ad edendam vocem. [illegible] pulmonum parenchymate destituta, vocem non edunt, teste *Aristotele*.

I[illegible] sanguineum ex dextro cordis [illegible] haurit [illegible] coarctatione ad sinistrum re[illegible] Hinc *torcularia* vocantur pulmones *Maurocordato*. [illegible] vasa in dilatatione, angustantur in constrictione. Experimento post *Highmorum* confirmat *Malpighius* [illegible] animalibus adhuc viventibus secto thorace, [illegible] pulmones, iterum immissa in tracheam fistula [illegible] inflentur, restituitur motus cordis jam prope extinctus [illegible] sanguine ex facta aeris commotione.

IV. M[illegible] in pulmonibus fieri [illegible]. De sanguinis & aeris mixtura non dubitamus. [illegible] sanguinem [illegible] & lympha *Malpighius* [illegible], ut fluxilis fiat [illegible]. Sed ista mixtio in dextro ventriculo cordis celebratur [illegible] quo confluit chylus cum lympha. P[illegible] mixceri sanguinem [illegible] vasa [illegible] *Lowero* per[illegible] propter quam causam [illegible] pulmonum analogon datum.

V. Sanguinis aliqualem coctionem *Morbus* inducit, [illegible] ad [illegible] tantum tanto apparatu opus non fuisset [illegible] pulmonum contabescere homines & floridum [illegible] pulmonum [illegible] non [illegible] corpus. An quod ex vitiata [illegible] concoctione [illegible] in corpore cumuletur? [illegible] vero sanguinis [illegible] & perm[illegible] addito aere, haec concoctio consistit.

VI. [illegible] ratione salis sui puriores [illegible] pulmonum vasis sanguinem in cordis ven[illegible] opera [illegible] majorem in ipso simul excitatum. Q[illegible] elegans est ex chymia petitus. [illegible] tamen res redit, ut aer

anspiratas

In[illegible] [illegible] temperet *Hornius* brev[illegible] [illegible] [illegible] [illegible] *Swammerdammius* [illegible] in dextro [illegible] [illegible] pulmon[illegible], [illegible] [illegible] natura. At si [illegible] [illegible] [illegible] vita non esse convenientis [illegible] evincit *Boylaeus*, præter necessitatē non est [illegible] [illegible] cordis de novo [illegible] [illegible] [illegible] [illegible] Hæc non [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ut recuperato [illegible] [illegible] mei C[illegible] *Blasio* demonstravit *Swammerdamius*.

VIII. *Pecquetus* [illegible] [illegible] pulmonum motu chylus [illegible] [illegible], & in lacteas [illegible] [illegible] enim pulmones [illegible] premere diaphragma, jecurque, unde & mole detrudere, & poros distendere, nec ab aliis musculis, quorum contractio momentanea, repeti posse, nisi a jugi hac respiratio[illegible] nis causa.

CAP. X.

DE FISTULA PULMONUM.

Trachea quid?

FISTULA vel canna PULMONIS veteribus Arteria dicta est, eo quod aerem contineat, *Galeno* & aliis *Trachea* seu *aspera arteria*, ab inæqualitate, & ad differentiam arteriarum lævium. *Latinis* spiritalis fistula, quod ea spiritus reciprocus trahatur. Est autem canalis, pulmones interiore parte plurimis ramis quos *Hippocrates* Syringas & Aortas vocat, ingrediens, cujus caput *Larynx* dicitur, de qua sequenti capite, [illegible] vero *bronchus* dicitur, eo quod a potu irrigetur. Aliquid enim potus tenue in tracheam & pulmones recte probat *Hippocrates* ex mactato recenter porco, in cujus pulmonibus materia ita colorata reperta fuit qualis statim antea ab eo hausta. Et quod aliquid potus descendat, posse per Tracheam probari potest ex *Julio Jasolino*, Anatomico Neapolitano, qui in nobilissimi cujusdam viri cadavere quærens causam mortis invenit pericardium aqueo humore distentum, ut eo presso aliquid humoris per os effluxerit.

An potus aliquid in tracheā & pulmones descendat.

Ejus situs in homine.

Situs. In homine Oesophago incumbit, nam ab ore recta deor-

... ad pulmones fertur ...

... la cum of- ... liber pa- ... & caeteris lig- ...

In Cygno.

... *Membrana* vestitur duplici, una *extrinsecus*, altera *intrinsecus*. *Membrana.*

Externa textûs à pleurâ est, & arcte cohaeret cum carni-

FIGURARUM EXPLICATIO.

Tabula hæc asperam Arteriam, œsophagum, nervos recurrentes circa arteriam magnam & axillarem, a parte posteriore repræsentat.

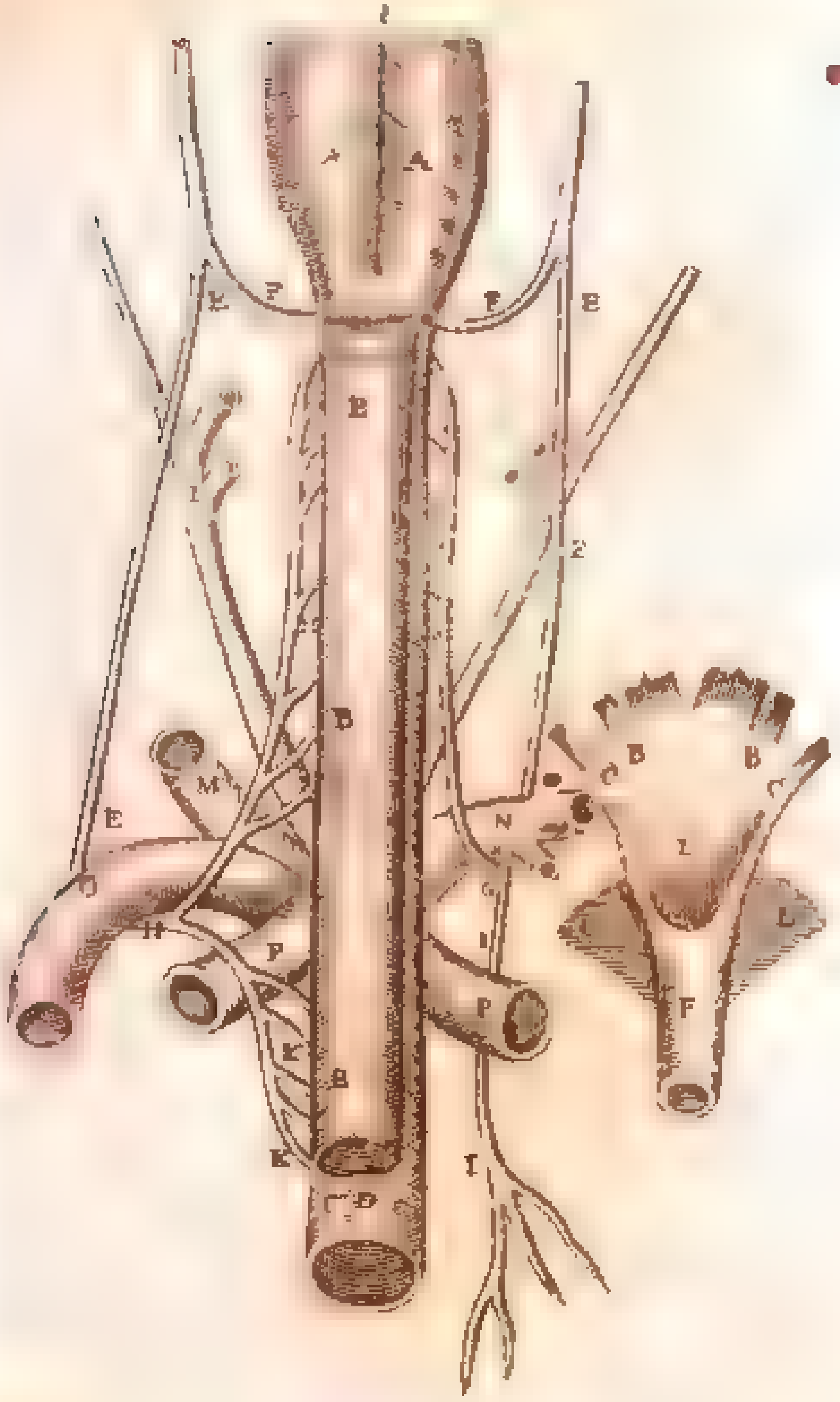
FIGURA I.

A A. *Musculus œsophagum constringens.*
B B B. *Œsophagus.*
C C C. *Aspera arteria gulæ substrata.*
D. *Membrana inter asperam arteriam, & œsophagum.*
E E E E. *Nervi sextæ conjugationis.*
F F. *Nervi linguæ [illegible].*
G G. *Nervus recurrens dexter ad arteriam humeralem [illegible] involutus.*
H H. *Nervus recurrens sinister circa arteriæ magnæ truncum descendentem.*
I I. *Nervus ad ventriculi orificium sinistrum, ac diaphragma tendens.*
K K. *Nervus ad diaphragma descendens.*
L. *Arteriæ jugulares, utrinque una.*
M. *Arteria humeralis sinistra.*
N. *Arteria ad humerum tendens dextra.*
O O. *Arteria magna.*
P P. *Arteriarum ad pulmones descendentium caud[illegible].*

FIGURA II.

Figura hæc superiorem gulæ partem una cum [illegible] musculis ostendit.

A A. *Musculi cephalopharyngæi.*
B B. *Musculi sphenopharyngæi.*
C C. *Musculi stylopharyngæi.*
D D. *Sphincter gulæ distractus.*
E. *Gulæ interna facies.*
F. *Gulæ pars descendens.*



[illegible] intermediis ligamentis, atque nervos recurrentes deducit.

Interna recta [illegible] fibris donata, transversis non [illegible] à latere [illegible] bis [illegible] citior [illegible] & [illegible] in ramis pulmonum [illegible] media, [illegible] haustis, aut [illegible] per tussim rejectis, aut [illegible] cadentibus.

Oritur hæc à tunica palatum succingente, ideoque [illegible] est [illegible].

Perpetuo humore inungitur ad prohibendam ex [illegible] in [illegible] clamoribus, ac [illegible] attractu [illegible] extersit. Atque vox ex hujus [illegible] vel [illegible] fit, in hac ex [illegible] & [illegible] Si [illegible] abundet plane [illegible] & voce privantur, quæ [illegible] humiditate [illegible] quod [illegible] potuit [illegible] Crœsi filio muto, de quo *Herodotus*, & [illegible] Athleta, cujus *Valerius Maximus* meminit & [illegible] Orthomo [illegible], de quo *Nic. Fontanus* in Observationibus [illegible].

Exquisiti sensus est hæc tunica, ut ad molestorum expulsionem insurgat.

Inter geminas has membranas est Tracheæ propria *substantia*, quæ partim *cartilaginea* est, partim *ligamentosa*.

Trachea cur cartilaginea. Ex parte *cartilaginea* esse debuit, & non in totum [illegible] membranosa. I. Ob vocem quia [illegible] sonat [illegible] esse debuit. II. Alias ob [illegible] semper concideret, & non facile aperiretur in respiratione.

Cur ex parte ligamentosa. Ex parte *ligamentosa* & nō tota cartilaginea esse debuit. Nam si [illegible] ex unica constaret cartilagine, aut [illegible] I. Semper esset aperta, & non concideret atque dilataretur. II. Oesophagum premeret, [illegible] in deglutitione, [illegible] ac [illegible]. Atque [illegible] vocem [illegible] membranosa [illegible].

Cartilagines sunt multæ [illegible] & [illegible] perfecti. [illegible] posteriore, quæ Oesophagum [illegible] pars [illegible], cujus loco membranosa est [illegible]. In [illegible] implet [illegible] extremitas [illegible], [illegible] compage & [illegible].

A figura [illegible] *vocantur*, quæ antiquum C referunt, donec

donec [illegible], cum ob mutatam figu- [illegible] [illegible] fiunt membraneæ.

[illegible] cartilagines [illegible] [illegible] [illegible] superiores, eo majores sunt.

[illegible] in [illegible] trachea [illegible] varietate [illegible] *Rand*[illegible]

Glandulæ quædam [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] parte [illegible] [illegible] [illegible] [illegible] [illegible] *dem* [illegible], sive pro [illegible] [illegible] lymphaticos ramos, ex pulmone [illegible] ad glan- [illegible] [illegible] — *Glandulæ novæ.*

Vasa cum aliis communia habet. *Venas* a [illegible] [illegible] *Arterias* a [illegible]. *Lymphatica* [illegible]. *Nervos* a [illegible] partis. In dextram [illegible] partem [illegible] [illegible] pro in- [illegible] & voce gravi [illegible] *Willisius*, [illegible] in sinistram partem utrinque excurrentes, [illegible] annulos pro exspiratione & voce acuta. — *Vasa.*

Usus I. In inspiratione, ut per eam tanquam fistulam [illegible] [illegible] recipiatur. Inde bronchia [illegible] [illegible] [illegible], quem aer recipro- [illegible] [illegible] non possit, facit. — *Usus.*

II. In exspiratione, [illegible]. Ut per eandem fuliginosa [illegible] & [illegible] excernantur, [illegible] [illegible] [illegible] patent [illegible] [illegible] [illegible] *Hippocrati* [illegible] & vocali [illegible] [illegible] [illegible] [illegible] *Card.* [illegible]

dam Colani [illegible] in S[illegible], qu[illegible] tern[illegible] [illegible] horis sub aquis [illegible]bat. Et in India Occ[illegible] [illegible] u[illegible] [illegible] [illegible] ostreas [illegible] ram integram sub aqua lantare. S[illegible] [illegible] [illegible] [illegible] in [illegible]. Ita & Ægypti[illegible] [illegible] f[illegible] [illegible] mundo depradantur. Nam [illegible] scriptione peregrinationis Hierosolymitanæ [illegible] scribunt Radzivil [illegible] sub aquis [illegible] [illegible]antes non contenti terre[illegible] [illegible], [illegible] quæ arripuerint, in aquam protrahunt, & an[illegible] [illegible] & frequenter hominem in sponda navis [illegible] a[illegible], atque [illegible] vita & [illegible] spoliant, ut [illegible] [illegible] sæpe tota nocte vig[illegible] cogantur. [illegible] [illegible] [illegible] piscatores [illegible] [illegible] man[illegible] pisces capiunt, & [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] sicut in Apopl[illegible] [illegible] & [illegible] [illegible] vel anatomo[illegible] [illegible] habent, q[illegible] [illegible] absque vehementi motu pulmonum, [illegible] [illegible] artificio quoda[illegible] [illegible] Dreb[illegible] talem [illegible] [illegible] refert B[illegible]

Cap. XI.

DE LARYNGE.

Laryngis, *Situs*, *Numerus*, *Figura*, *Magnitudo*, [illegible]

F[illegible] [illegible] pulmonariæ caput, seu [illegible], dicitur LARYNX, quæ est vocis organum.

Situs in collo, & [illegible] [illegible] [illegible].

Numero [illegible] est, ut [illegible] vox edatur.

Figura rotunda & circulari fere, quia [illegible] ob vocem [illegible] [illegible], sed parte antica magis exuberans, po[illegible] [illegible], ut gulæ cedat, in deglutitione [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] & [illegible] deglutitionem adjuvat, tum cedendo, tum [illegible]mendo.

Magnitudo variat secundum ætates. Nam [illegible] Larynx [illegible] unde vox [illegible] [illegible] vox gravis. Ad quæ [illegible] [illegible] & si accedat [illegible] [illegible] [illegible] [illegible] parva.

[illegible] [illegible] duæ sunt [illegible] [illegible] [illegible] [illegible] *Hippocrate* [illegible] calore. Quamobrem in [illegible] [illegible] [illegible] ad conformationem vocis [illegible]

malcu[illegible]

[illegible] tempore [illegible]. Hinc vox mu- [illegible] *Mutatio vocis unde.* crepitatem habet.

[illegible] *cartilagines, mus-* [illegible] *glandulas.*

[illegible] primo [illegible] mo- [illegible], cum vocem pro arbitrio edimus. *Muscu-li.*

[illegible] *musculi* non nisi *tredecim,* [illegible] *communes* [illegible] *proprii* [illegible]

Communes [illegible] ab ea tamen non oriuntur.

Propr[illegible] & [illegible].

Commun[illegible] *par primum*, [illegible] veteribus [illegible] lato [illegible] in latera cartilaginis scutiformis. *Commu-nes.*

Usus est [illegible] cartilaginis [illegible] scutiformem [illegible].

Secundum par, Hyothyroides appellatum, quod [illegible] cartilaginis scutiformem contrahit, & inferitur in basin scu-[illegible].

Usus est, [illegible] scutiformem attollit.

[illegible] *Spigelius & Vesl*[illegible], pro-[illegible] laryngis [illegible].

[illegible] *tertium par* addunt, quod tamen a *Columbo &* [illegible] habetur musculo.

[illegible] est, quandoquidem a scuti-[illegible] circumplicatus.

[illegible] non [illegible] per [illegible].

Primum par proprium [illegible] *Propr-ij.* [illegible] *& laterale* [illegible]

Usus [illegible] & [illegible]

[illegible]

FIGURARUM EXPLICATIO.

Tabula hæc laryngem cum suis musculis, & cartilaginibus repræsentat.

FIGURA I.

A. *Cartilago Thyroides sive scutiformis.*

BBBB. *Par musculorum communium sternothyroides dictum.*

CC. *Communium musculorum alterum par Hyothyroides.*

FIGURA II.

A. *Epiglottis sub scutiformi adhuc latens.*

B. *Scutiformis cartilago.*

CC. *Ejusdem processus.*

DD. *Duo musculi proprij laryngis, quarum sinister à situ remotus est, ut cartilago annularis. E. Appareat.*

F. *Exuberantia cartilaginis annularis.*

G. *Portio asperæ arteriæ.*

FIGURA III.

AAA. *Os hyoides cum cornibus exuberantibus.* B. *Epiglottis.*

CC. *Cartilago scutiformis a parte postica concava.*

DD. *Musculi duo Cucullares, seu par Cricoarythenoides posticum.*

E. *Pars postica membranosa asperæ arteriæ.*

FF. *Musculi Arythenoides dicti, aliis nonum par.*

FIGURA IV.

A. *Cartilaginis scutiformis concava pars dilatata.*

B. *Tertium par propriorum musculorum Cricoarythenoides laterale.*

C. *Primum par propriorum musculorum.*

D. *Quartum par Thyroarythenoides internum.*

EE. *Nervi recurrentes inserti.*

FF. *Posterior pars asperæ arteriæ membranea.*

FIGURA V.

AA. *Cartilago Thyroides sive scutiformis.*

BB. *Ejusdem processus inferiores.*

C. *Concava ipsius pars.*

FIGURA VI.

A. *Cartilaginis annularis facies interna.*

B. *Ejus inferior regio & anterior.*

C. *Regio posterior & superior.*

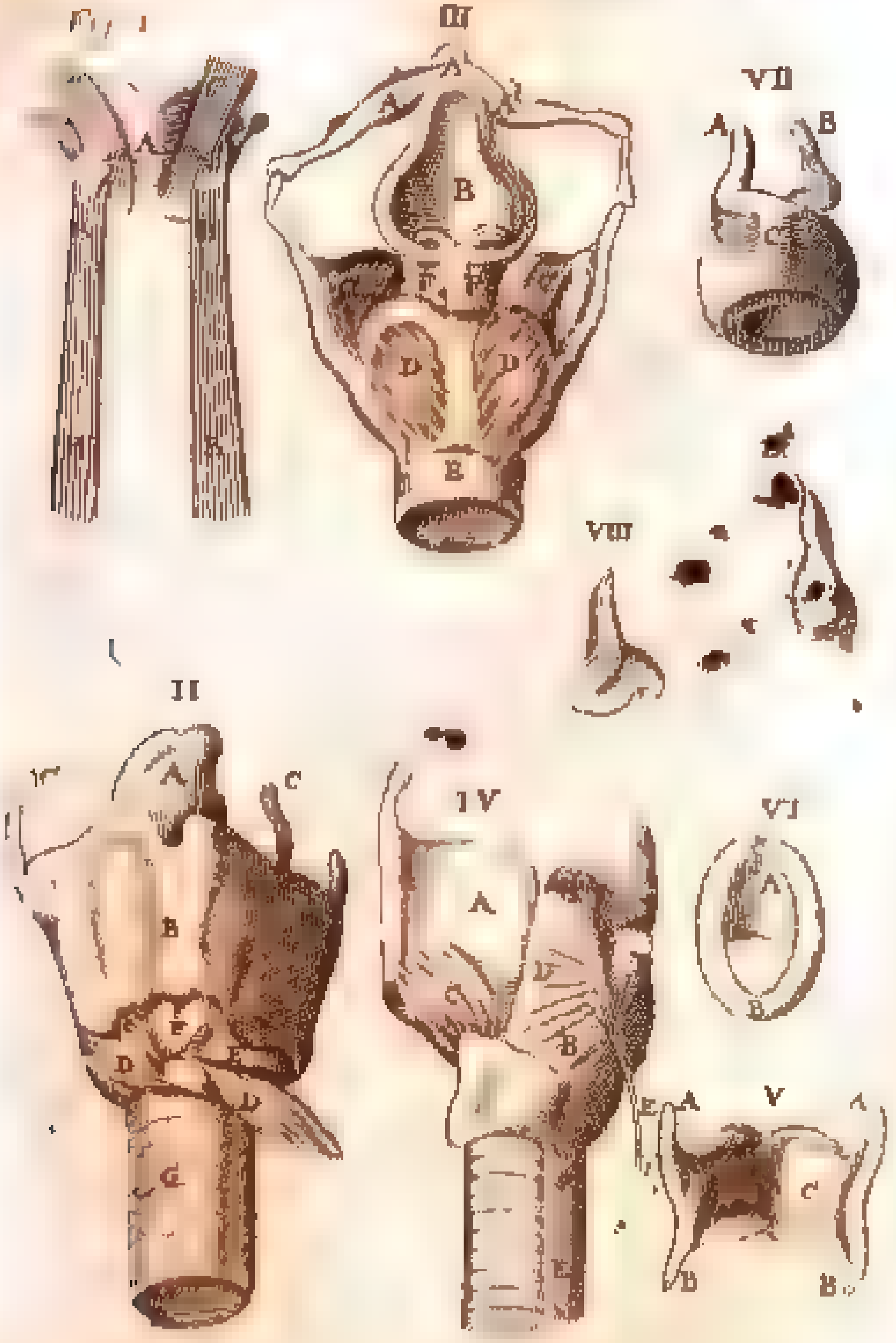
FIGURA VII.

A. B. *Cartilago arythenoides secundum faciem posteriorem, juncta adhuc annulari.*

C. *Lateralior & posterior annularis pars.*

FIGURA VIII. & IX.

Cartilagines quæ Arythenoidem constituunt ab annulari separatas monstrat.



ACADEMIA

[illegible] scutiformem dilatant.

[illegible] par [illegible] Hinc [illegible] *Casserius* [illegible]

[illegible] par Crico-arythenoides laterale [illegible] apertis [illegible] est [illegible]

[illegible] par [illegible] *Riolan.* [illegible] Aryt. [illegible] clauditur.

Nonum par [illegible] den cartilaginem constringit.

Notandum enim omnes musculos [illegible] constringunt, Thyroideam dilatant & constringunt, Arytænoideam [illegible] stringunt. Et patent non [illegible] nobis [illegible] propositos, sicut [illegible] *Riolanus.*

[illegible] in homine nullus est. [illegible] non movetur, [illegible] dependet.

[illegible] *arytænoides* [illegible] [illegible] & [illegible] *arytænoidis* [illegible]

Cartilagines [illegible] *quinque* sunt: quæ in senescenti- [illegible] nt.

Prima [illegible] *scutiformis* [illegible]

cava

[illegible] magis tamen in viris, [illegible] *Pomum Adami*, qua [illegible] partem [illegible] *Salmacius* hanc observavit & [illegible]

Pomum Adami magis prominet in viris, quam in mulieribus.

[illegible] longiores. [illegible]

[illegible] & totam [illegible] *Romano*. [illegible] *innominata*, [illegible] quae & immobilis.

Tertia & quarta [illegible] membrana exuitur, [illegible] guttam [illegible] vox [illegible] & posterior [illegible] in cavitate laryngis [illegible]

Glottis.

A[illegible] hoc loco *sinus*, qui formatur inter [illegible] contrahi [illegible]

Epiglottis.

[illegible] Quamo [illegible]

[illegible] las [illegible], [illegible], [illegible] capite, tenendam donec [illegible], ut [illegible] per trachea [illegible] defluat. Aperitur [illegible] eo momento [illegible] caveant. Provideant quoque [illegible] ne [illegible] hanc & tumulam [illegible] unde suffocatio [illegible] in juvene Hafniensi [illegible] ingeste [illegible] ponderis [illegible] avidissime ingesta [illegible] tum spiritum interclusit.

Canaliculi ejus. A [illegible] epiglottidi incumbentibus [illegible] *naliculi* quidam, observante [illegible], [illegible] ejus [illegible], qui humorem per [illegible] in [illegible] ea ejus parte quae laryngi [illegible], evacuant.

Substantia. Est [illegible] molli et epiglottidis *substantia*, [illegible] vel secundum *Hippocratem* [illegible]. [illegible] membrana [illegible] communi alligatur, qua [illegible] perfusa [illegible] laryngis [illegible] cavitas, & extra quoque larynx obvolvitur.

Musculi epiglottidis. In dorso Epiglottidis docet *Aquapendens* dari duos *musculos* carnosos, [illegible] pronatos, ad [illegible] epiglottidi [illegible], brutis [illegible] donatos. Unus tamen & brutis & hominibus tantum est musculus *membranosus*, ut epiglottidem recurvet supra laryngem in ciborum deglutitione.

Laryngis Vasa. *Venas* habet larynx à jugulari externa.

Arterias a Carotidis majori ramo.

Nervos Galeno vocales dictos, pro motu musculorum a sexti paris ramo recurrente.

Glandulae. *Glandulas* obtinet *duplices*.

Alias ad laryngis sedem altiorem, videlicet ad [illegible] gargareonis latera, quae dicuntur *tonsillae* vel [illegible] [illegible] Antiadas, quae spongiosae [illegible] [illegible] una, sed tenui productione [illegible] [illegible] cerebri [illegible] vel [illegible] convertunt, cujus gratia [illegible] fauces [illegible] & [illegible], quamvis & ad gulam, [illegible] dore non sit, faciat.

[illegible] amygdalae [illegible]. Saliva. [illegible] *Whartonus*, [illegible] sit primum [illegible] pars objecto [illegible] obj[illegible] [illegible] tamen [illegible] [illegible] vi sua fermentativa [illegible] contrahit. At inflammata vel [illegible] [illegible] tamen concoquit. Sunt hae glandulae [illegible] adhaerent, & communionis [illegible]

tur atque arterias & venas à jugularibus accipiant, nervos [illegible] 4 pari.

[illegible] habent duas *vesiculas* candidas, quæ è glan[illegible] excipiunt & in os eructant. [illegible] in homine non [illegible] *Riolanus*, sed membranas liga[illegible] nervosas ab uvula [illegible] protensas his substerni.

Ductus [illegible] hos accuratius hic describit *Whartonus*. Habe[illegible] utrinque unum communem amplum & ovalem [illegible] apertum, intra capitis fimbriam duos majores & pla[illegible] *sinuosos* [illegible] vero [illegible] crassissi[illegible] *sinus* eorum communes aperto osculo in guttur [illegible] *Fallopius* [illegible] aperturam [illegible] bovino [illegible] eminente glandula ulcusculum æmulari. *Ductus novi.*

Alia [illegible] inferiori laryngis regioni, *Thyroideæ Whartono* dicta, ad latera cricoidis & [illegible] arte[illegible] magna & [illegible] pyriformi [illegible] venæ ex [illegible] In feminis magis perspicua est, in homine & bove magis carnea, seu [illegible]dior, & rubicunda [illegible] musculosæ carnis instar. De his notat [illegible] *van Horne*, ubi binæ reperiuntur ut tradit *Vesalius*, inte[illegible] sua parte non obscure conjungi, & [illegible]

Usus [illegible] humores [illegible] lin[illegible] la[illegible] [illegible], ut [illegible] ad motum aptiores fiant, & vox [illegible] [illegible] [illegible]

Præcipuus autem usus est *Whartono*, superfluas quasdam nervi [illegible] humiditates excipere, & in venosum genus denuo deducere per sua *Vasa lymphatica*. Facere [illegible] calorem cartilaginum fovendum, & colli ro[illegible], [illegible] arterias habent, & [illegible] laryngem implent. *Malpighius* credit, [illegible] glandulas [illegible], [illegible] [illegible] lympha[illegible] salivalis.

Usus laryngis est, esse vocis organum. *Laryngis usus.*

Organa enim *vocis* sunt vel *remota* vel *propinqua*. *Organa vocis quæ, & quotuplicia?*

[illegible] thorax & pulmo, [illegible] [illegible] vasa [illegible] [illegible] [illegible] [illegible] [illegible] & voci[illegible] [illegible] expertus est *Galenus*, & [illegible] avulso corde [illegible] [illegible] protulisse notavit in historia Vitæ & Mortis [illegible] *Verulamius*.

Alia [illegible] præparantia, ut *Trachea*, vel adjuvantia, ut musculi

[illegible] & [illegible] ... [illegible] LARYNX [illegible] ...

Vox quomodo fiat

Vox autem hoc modo fit: Aer subito & cum [illegible] ... [illegible] ... ex aere [illegible] vox [illegible] ... Unde *Aristot.* [illegible] ... Si vero patente organo [illegible] spiritus, fit *suspirium*.

Suspirium.

Quamobrem [illegible] vox [illegible] tur ab animalibus hoc organo carentibus, ut sonus [illegible] [illegible] ... docet *Arist.* [illegible] ... [illegible] que tamen [illegible] ... vocantur. At [illegible] est [illegible] ... loco [illegible] ... vox

Vox in propria significatione.

est sonus animalis [illegible] ... ex percussione [illegible] ad animi conceptus [illegible] ... vox non est [illegible] ... vox est. [illegible] ... [illegible] ... *Arist.* [illegible] ... [illegible] ...

Vocis differentia

Differentia vocum [illegible] sunt, [illegible] ... ab aeris diversa percussione & [illegible] ... ab instrumenti [illegible] ... pulmonis & thoracis varietate [illegible] & quantitatibus. 4. prout ipsa vox in aures vel [illegible] dispersa [illegible]. Est praeter [illegible] ... [illegible] magis [illegible]. Nam recens [illegible] agnus matris suae [illegible] ... sonos agnoscit [illegible] ... & de [illegible] ... Nunquam enim [illegible] dem vox, [illegible] ... conveniunt instrumenta: sicut nec campanae ex eadem materia, eodem pondere, eadem forma, eodemque artifice, & artifice [illegible] [illegible] sonum [illegible].

Partes vocis sunt Vocales & Consonantes literae, Vocales

sun-

[illegible] tantum ma x lingua. Quando vero vocalis alte- [illegible] & mo [illegible], consona [illegible], quæ profert ideo non potest [illegible] materia, & [illegible] modificata [illegible] oritur, non [illegible] e contato sono e fit [illegible] articulatus & cum [illegible] premitur & mediciur à digitis.

Cap. XII.

DE OESOPHAGO.

Oesophagus [illegible] *gula*, [illegible] *stomachus*, Cælio Aure- [illegible] *stomach* & [illegible] *ventris* [illegible]

[illegible] ita est, ut [illegible] Pharynx & ab his recta descen[illegible] sub tra- chea. Ubi vero ad [illegible] vertebram pervenit, [illegible] per [illegible] latus [illegible] dextrum versus inclinat, [illegible] ad sinistram arteriam magnam conscendit, & [illegible] vertebram per diaphragma [illegible] sinistrum, una cum nervis binis à sexto pari [illegible] *Situs.*

Venas vero habet paucas à cava, azygo intercostal. & [illegible] bus. *Vasa.*

Arterias ab Intercostalibus, & carotidibus internis, [illegible] & ab arteria bronchiali *Ruy*, [illegible]

Nervos à sexto pari.

Lymphatica [illegible] thorac[illegible] exonerent, quæ [illegible] ex œsophago proximo ita- [illegible] & cordialia in [illegible] per axillarem ad cor deferente.

Connexio est [illegible] cum faucibus & larynge, per [illegible] quæ [illegible] & ventriculo continua. Ve[illegible] [illegible] vicinis partibus jungitur, per [illegible] ex [illegible] ligamentis ortas. Quia vero spinæ [illegible] thoracis [illegible], inde eo affecto, to- [illegible] dorso applicamus. *Connexio.* *In affectibus gulæ appon[illegible] dorso Topica.*

Glandulosum corpus parte posteriore adnascitur prope [illegible] thoracis vertebram, modo ex duplici glan- [illegible] pluribus compactum, quod humorem suppe- [illegible], ad imbuendam cavitatem, pro faciliori deglutitione. *Glandula.*

Et

Et subtilis [illegible] premeret, ut potum & alimentum [illegible] dioribus viam intercipiat. Quin habet nervos à sexto pari & dorsalibus è vertebrarum [illegible] itemque *Lymphatica* [illegible] à musculis intercostalibus [illegible] à pericardio & [illegible] [illegible] ex his principiis contra *Whartonum*, ut è lympha per has glandulas decurrente, in motionem & [illegible] tioni aptiorem succum eliciant in ut [illegible] xorum, vel quam vero lympham [illegible] & à [illegible] per [illegible] in communem chyli [illegible] deponere.

Substan-
tia.

Substantia oesophagi ex triplici constat tunica, ut facilius distendi in longum & latum possit.

Prima communis est cum ventriculo. Hanc male alii à vertebrarum ligamentis, alii à pleura ortam volunt. *Oritur* inde autem unde membrana ventriculi est, videlicet à peritonaeo, nam continua est membranae ventriculi. Simpliciter est *tenuis* & fibris quasi omnibus destituitur.

Secunda est propria prima, externa carnosior, crassior & mollior est, ac si musculus [illegible] esset, vulgo [illegible] dis & transversis fibris pertexta. Musculam esse quoque probat *Helmontius* & *Lindanus*, quia convulsiones & paralyses patitur. Veterum ea quoque sententia, *Galeno* [illegible].

Hujus *fibras spirales* omnes ad duo genera reducit *Stenonius*, duas nempe [illegible] quae ubi contrario ductu sibi occurrunt, ita se intersecant, ut quae in altera [illegible] incederat, mox alteram scandens superior [illegible], donec sibi iterum occurrant [illegible], progrediuntur. Ex [illegible] *Amstelodamensibus* [illegible] repraesentat, a ventriculo ad fauces adscendentia, & è regione sibi invicem apposita.

Tertia est propria secunda interna, quae est major [illegible] paulo subtilior & durior, vulgo rectis & longis fibris praedita, membranae [illegible] quae palatum, os, fauces & [illegible] continuata, unde [illegible] vomitu contrahitur [illegible] labium.

Caeterum contra vulgarem hanc opinionem [illegible] [illegible] internam esse transversis & circularibus vel [illegible], externam rectis & oblongis.

Muscu-
li.

Musculi Oesophagi, qui ab aliis [illegible] proprii [illegible] tur, *quatuor* sunt.

Primus ille est, de quo supra in larynge [illegible] stat unicus ambiens Oesophagum, unde dicitur *Oesophagus Riolano*, *Spigelio*, *Veslingio*, [illegible] horum auctoribus. *Vim* constringendo cibum deorsum pellere.

Secundus *Sphenopharyngaeus* iisdem dictus, a sphaenoidis

[illegible]

[illegible] tum italicus pharyngem.

[illegible]

[illegible] jam depressæ cavitas [illegible]

[illegible] obviam venit, & ore allumpta ne rettor- [illegible]

[illegible] velut integer circulus & [illegible] in suprema pharyn-
gis parte, & à primo in infima.

Quomodo [illegible] Cartesius [illegible]

[illegible] quispiam adest, spiritus quos continet per [illegible] efficiatque ut illi qui proveniunt [illegible] pacto gulam aperiri & [illegible] musculum sub ventriculo [illegible] quem ille supponit.

[illegible] est, ut per eam tanquam per infundibulum [illegible] quæ cum tacitus liquida, quam solida, [illegible]

quam loquelas ægris nonnullis, ubi facultas magis irritatur, fortiori objecto, altius [illegible], præsertim in paralysi.

CAP. XIII.

DE COLLO.

Colli. APpendix ad medium Ventrem, est COLLUM, tertius quidam quasi venter [illegible] caput & thoracem.

Etymo. [illegible] a colendo, quod exornari solet, vel a colle, nam exsurgit a corpore, ut à reliqua terra collis.

Magnitudo. *Oblongum* est ob vocis modulationem [illegible]. Hinc [illegible] vocem non edunt animalia, ut pisces & [illegible], collo carent; quæ vero maxime [illegible] vocem edunt, collum [illegible] habent, ut grues & anseres, &c. Ab usu Veneris [illegible] *crassiores*, [illegible] rotundem & jugulares. Unde veteribus Romanis [illegible] erat commensuratio colli, ex qua post [illegible] nuptias [illegible] puellam integram vel corruptam cognoscebant, ut ex Catullo didicimus & *Mercuriale*.

Ejus partes. *Pars* colli posterior proprie *cervix* dicitur. Partes autem colli vel sunt externæ, ut cutis, musculi & [illegible], vel internæ, ut vasa percurrentia, trachea, & œsophagus de quibus [illegible] actum, de reliquis suo loco.

Usus. *Usus* colli [illegible] propter œsophagum, [illegible] & pulmones. Hinc animalia quæ pulmone [illegible], ut pisces, carent etiam collo. [illegible] Galeno authore [illegible] loco [illegible] alimentaris [illegible] at partibus anterioribus [illegible] humero, [illegible] œsophagum nervos [illegible] has enim partes habent [illegible] cum aliis qui collo gaudent.

ANATOMIÆ BARTHOLINIANÆ

LIBER III.

DE SUPREMA CAVITATE.

TERTIUS vel *supremus Venter* est CAPUT, [illegible] quasi in specula constituti, & cen[illegible] [illegible] nobiles nervos [illegible] bus, & longum ductum non ferentibus. *Cur caput in summo positum.*

Figura [illegible] comprehen[illegible] [illegible] ob[illegible]. *Figura.*

Magnitudo homini præ aliis animalibus insignis est, ob [illegible]. *Magnitudo*

Atque pro [illegible] *ossium* est caput. *substantia.*

Dividitur caput in partes *capillatam* & *non capillatam*. *Divisio.*

Illa C[illegible] dicitur, hæc FACIES. *Calva*

Calvæ partes externæ recensentur

[illegible], est quæ pars anterior à fronte, [illegible]

Occiput, est [illegible] pars posterior [illegible] ad primam cervicis vertebram.

Vertex est quæ pars inter has media & [illegible].

Tempora [illegible] quæ partes laterales [illegible] oculos & aures.

[illegible] *partes constituentes* sunt [illegible] & [illegible] *contenta* & internæ. *Illæ* vel sunt communes [illegible] & [illegible] [illegible] *Contenta* sunt cerebrum, cerebellum & medul[illegible] calva, partim in spina existens.

[illegible] glabra, F[illegible] dicta [illegible] partes conti[illegible] habet partes, vel [illegible], quæ *frons* [illegible] vel inferiorem [illegible] organa [illegible] *nares*, *aures* & *os*, in quo *lingua* aliæque partes [illegible]. *Facies*

CAP. I.

DE PILIS.

I[illegible] maxima [illegible] de [illegible] [illegible] [illegible] [illegible] [illegible] que non spectent.

Pili, quibus in animalibus?

[illegible] an[illegible] fere om[illegible] [illegible] *Aristotele*, [illegible] [illegible] pe[illegible] non [illegible] [illegible], aculei oblongi.

[illegible] *pilos* po[illegible] [illegible] [illegible] ad ornatum pertinere dicuntur.

Causa materialis ex qua P R O X I M A, [illegible] & excrementitij vapores, [illegible] & [illegible] [illegible].

Pili & ungues an ex bono alimento nutriantur.

[illegible] ergo pilos & ungues nutriri & generari ex [illegible] [illegible] [illegible] [illegible] [illegible] & tabidis, præcipue semper crescunt in quavis ætate [illegible] [illegible] [illegible] *Pareus* in hoc ope[illegible] cadaver [illegible] [illegible] 24 annis [illegible] [illegible] & ungues [illegible] [illegible] [illegible] *Highmoro* [illegible] [illegible] & necessariæ, [illegible] [illegible] [illegible], quia [illegible] [illegible]tur. Ergo ex [illegible] & [illegible] [illegible] carnosæ substantiæ [illegible] [illegible] [illegible] utcunque resolutæ.

Quo loco pili generentur.

Materia remota non est [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Si vero [illegible] [illegible] ex [illegible] copia [illegible] [illegible], vel per lymphatica vasa humiditas superflua expurgatur.

[illegible] *materia* vel *locus* [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] loco pingui & [illegible], [illegible] terra minus arida.

Ideo

I[illegible] *locus est* [illegible] ex [illegible]. In [illegible] Hinc animali [illegible] & [illegible] pili [illegible]. *Cur [illegible] in [illegible] carentes?*

[illegible] debet moderate [illegible] radice [illegible] nec non moderate [illegible], & [illegible] penetrare possit. Hinc [illegible] porosa est & [illegible] poris [illegible] habet [illegible] pilorum, [illegible] volam manus & plantam pedis, quæ partes ob [illegible] & [illegible] perpetuam carent pilis, & qua sen[illegible] Hinc ex [illegible] cutis, qua [illegible] pilus. Observavit *Malpighius* [illegible] nervorum papillas [illegible] pilos & planas. Sicut [illegible] radices [illegible], ita [illegible] penetrat, & *rotundo* [illegible] capitulo [illegible] *ovali* [illegible] *involucro* [illegible], quod nervus [illegible] propagatur. Ita [illegible] radices glo[illegible] nerveis propaginibus contextus [illegible].

In [illegible] quoque membranis pili [illegible] in corde, ut supra [illegible] utero [illegible], teste *Hippocrate, Galeno, Schenckio.* In ventri [illegible] *Herc.* & [illegible] in Norvvegia [illegible] ex [illegible]. Ex [illegible] Hippocrati [illegible] pilis [illegible]. In [illegible] Norvegia *Sennertus.* [illegible] pilos cum [illegible] testantur *Nic. Florentinus, Tulpius, Zacutus.*

Efficiens, non est anima vel facultas vegetativa, [illegible], [illegible] vapores [illegible], [illegible] foras in poros cutis protrudens.

Hæc [illegible] principua sunt *requisita* ad pi[illegible] generationem, videlicet *materia*, *locus* conveniens & *calor*. *Requisita ad pilorum generationem.*

[illegible] contra colligi potest *causa calvitii.* *Causa calvitii.*

1. [illegible] materia deficit.

2. [illegible] cutis est [illegible] siccior, & [illegible] magis [illegible] a parte [illegible] humectatur, [illegible] vel exsiccatis. Intelligentium [illegible] fit [illegible], & parte posteriore [illegible] *Aristoteles.* Nam [illegible] & [illegible] non [illegible] testacea [illegible] decidunt. *Cur [illegible] [illegible]?*

3. A calore peccante, in defectu vel excessu. [illegible] & [illegible] per [illegible] calescunt & [illegible] non calvescunt.

4. A veneno [illegible] calore [illegible] Deus [illegible] observavit *Franciscus de Paz* [illegible] ad *Nic. Fontanum* [illegible] & equus comitis Oldenburg [illegible] *Ham* [illegible] parti [illegible] extra [illegible] quo & [illegible]

Dividuntur [illegible] *congeniti* & *post genitos.*

Pili congeniti [illegible] *Congeniti* [illegible] nares [illegible] tur, suntque triplices; Capitis pili [illegible] & palpebrarum.

Postgeniti [illegible] *Postgeniti* extra uterum nascuntur in homine, quando [illegible] pubertatem, [illegible] in puero semen [illegible] & [illegible] membris via datur, cum cum [illegible]

[illegible] & [illegible] pili in [illegible] & [illegible] inter nares [illegible] meatu [illegible] ubi [illegible] Rarum est quod in [illegible] A [illegible] [illegible] barbam [illegible] pu [illegible] non [illegible] puellam non ita [illegible] toto quo [illegible] corpore [illegible] Nuperis annis apud [illegible] barba prolixa ex flavo [illegible] nuper [illegible]

Usus. [illegible]

I. Esse patrium tegumentum.

II. [illegible] Et hæc maxime in [illegible] Nam

[illegible] Capillorum [illegible] ab externis [illegible] calore, &c. Ut in Æthiop [illegible] ab æthe [illegible] homo præ cæteris animalibus maximum, sic capillos copiosissimos.

2. Ca

[illegible] moderate [illegible] in capite pinguedo [illegible] potius [illegible] Mal[illegible] hoc vel [illegible], [illegible] conc[illegible]. Sic [illegible] & moderate cale[illegible] non [illegible], ne recidi[illegible] de quo [illegible] Suevum.

[illegible] & [illegible] sunt, ita & barba ad ornatum facit, & [illegible] efficit, praesertim si pili undique circumstandantur. In [illegible] non erat opus. *Barba ornat.*

III. [illegible] humores & [illegible] corpus [illegible] Unde [illegible] & *Celsus* [illegible] pituitae [illegible] *C. Aurelianus* [illegible] liberat. [illegible] ratio [illegible] *Helmontius* [illegible] Ex *Didymo* [illegible] *Montanus* [illegible] aegrotantes [illegible] capite [illegible] Mo[illegible] caecus [illegible] quod [illegible] cum pi[illegible] Ideo

IV. [illegible] temperamento [illegible], morbus [illegible] & morbis occultis judicium praebere.

Forma pilorum non est [illegible] multis [illegible] *Forma.*

[illegible] & [illegible] quatuor annos cum *Pompeio* [illegible] Nec [illegible] retinent [illegible] non mo[illegible] nec [illegible] est [illegible] quod [illegible] magis [illegible] partes vitae [illegible] vivae [illegible] viventes [illegible] nec plantarum more [illegible] Igitur [illegible] Neque [illegible] cum *Pirrho* [illegible] vitae post mortem remanere, sicut [illegible] aliquod [illegible] manere [illegible] *Cornerarius* [illegible]

 [illegible]

[illegible]

tam prolixi erant, ut pene tergum comprehenderent. [illegible]

Figura. II. *Figura* [illegible] qui humore abundant, crispi vero in iis, qui [illegible] *Aristoteles* [illegible] optico illo instrumento [illegible]

[illegible] juxta *Aristotelis* effatum.

III. *Color* [illegible] colorem cutis [illegible] variabilis, sequitur regionem & aetatem [illegible] &c.

Nam [illegible] habent non tantum [illegible] & [illegible] Arabes [illegible] non tantum [illegible] flavos vel albos, ut Dani, Angli [illegible] &c.

[illegible] praedominans colorem facit pilorum ut [illegible] & ita consequenter.

[illegible] varie colorat; ut, immodicus [illegible] vaporem [illegible]

[illegible]

[illegible] & [illegible] in fuliginem mutatur. Calor [illegible] rufos, imbecil- [illegible] causa [illegible] canas [illegible] &c.

[illegible] & albo- [illegible] A [illegible] fiunt [illegible] & [illegible] & tandem cani atque albicantes.

[illegible] in humano corpore [illegible] sunt per natu- [illegible] & [illegible] in eo habea- [illegible] minus ca- [illegible] capaces & [illegible] impe- [illegible] *Scaliger* [illegible] color [illegible] *Mar-cellus Donatus* [illegible] Antonio Maria [illegible] in corpore re- [illegible] & [illegible] luteo colore ad [illegible] inclinante [illegible].

Canities caussa. *Canitiem* [illegible] putarunt fieri a siccitate, quemadmo- [illegible] a [illegible] siccitate [illegible].

[illegible] *Aristoteles*. Nam qui [illegible] capite ince- [illegible] tamen ita exsiccantur, quam [illegible] quidam ab [illegible] non a siccitate.

Cur citius canescant, qui capite tecto incedunt? [illegible] capite velato incedant, qui a [illegible] & [illegible] ex- [illegible] causa, ut [illegible] quando non ita [illegible] potest ut in juventute. Et ultima atque te- [illegible] calor [illegible] maxime [illegible].

Cur circa tempora citius homines canescant? [illegible] humor albus oritur, causa [illegible] *Aristotelem*, [illegible] magna pars in [illegible] & [illegible] facit albe- [illegible] homines citius circa tem- [illegible] & ea [illegible] sub cu- [illegible] facilius patref- [illegible] temporibus [illegible] sunt tenuia, [illegible] calor extraneus facile potest pervadere.

[illegible] *Sympathia* singularis [illegible] colons & [illegible] notanda. Excitam [illegible] pilo- [illegible] capitis cutem [illegible] pilos canos & calvitiem [illegible]

[illegible] Lupi[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] dura mater [illegible]

C A P. II.

DE MEMBRANIS EXTRA & INTRA CRANIUM.

MEMBRANÆ EXTERNÆ [illegible] PERICRANIUM & PERIOSTIUM. INTERNÆ, quæ cerebrum [illegible], eidem duæ sunt, M[illegible] & [illegible]. DURA MATER & PIA MATER, [illegible] brana & tenuis [illegible] pleura in media & peritonæum in infima.

PERICRANIUM [illegible] & mollis [illegible]

A dura meninge [illegible] expressum. Dein [illegible] pericranium [illegible] *Horstius* [illegible] *Laurenber-gius* [illegible] dam impositur, orta.

Perio-stium. PERIOSTIUM est membrana tenuissima & nervea [illegible] tibus exceptis, cincta, sensum habens.

D[illegible] has duas membranas cum *Vesalio* & *Bauhino* & [illegible] *Fallopium, Laurentium* & [illegible] *Mar. hertus*

Musculi vero circa caput [illegible] loco explicabuntur.

Crassa Meninx. CRASSA MENINX [illegible] DURA MATER [illegible] & [illegible] nes totius corporis [illegible] una parte [illegible] & [illegible]

Laxe

I[illegible] & [illegible] inferiori parte & [illegible], [illegible] Hildanus & [illegible] Bonthuysius [illegible] tamen, [illegible] nam [illegible] & [illegible] Olhafio & Hofmanno largiuntur. [illegible] cerebri [illegible], & [illegible]

Cerebri motus, qui [illegible] systole & diastole constat, estque [illegible] in capitis vulneribus, ecquis [illegible] capitis [illegible], ut observat Fabr. Hildanus, & nos non raro hunc motum in vulneratis vidimus. Motum ergo [illegible] doctos [illegible] hunc [illegible] velle. Sed [illegible] est, ejus motus [illegible] Arteriis tribuunt [illegible]. [illegible] Nam ablata [illegible] portione & [illegible], motus tamen cerebri [illegible] Riolano. Arteriis [illegible] cerebri motus cum arteriarum motu conci[illegible] capite, fractoque cranio observant [illegible]. Quin & notavit Vidalius qui vulnerato [illegible] capite [illegible], in iis [illegible] cerebri [illegible] motum, [illegible] motus [illegible] pulsibus & [illegible] evidens. Cover[illegible] herbis & [illegible] viventibus nullum cere[illegible] motu, [illegible] observavit. Confirmat Olhafius [illegible] motus circa [illegible] ma[illegible] ad cerebri [illegible] & [illegible] ad movendum [illegible]. [illegible] motus observatur Luna plena ab humore tur[illegible] & is ab arteriis est, sanguine magis distentis, nam [illegible] vel tardatur [illegible] motus pro vario [illegible]. Duram meningem & arterias conjungit quoque [illegible] in [illegible] cerebrum & [illegible]. Hinc [illegible] capitis [illegible] fortiter capite [illegible], [illegible] laxari vel [illegible]. Tandem [illegible] in partibus quibusdam [illegible] saltem [illegible] & contrahi [illegible] inflammatio [illegible] morbus [illegible] Vidussius [illegible] motus [illegible] naturam. Motum cerebri respondere [illegible] pulmonum, nullum [illegible] satis urgens.

Cerebri motus.

FIGURARUM EXPLICATIO

Integumenta cerebri tam propria quam communia ordine in sectionibus consueto exhibentur.

FIGURA I.

Externas partes monstrat.

A A A. *Cutis cum cuticula & radicibus pilorum.*
B. *Cutis vero à cuticula C. separata.*
D D D. *Membrana carnosa venulis donata.*
E E. *Musculus frontis extra locum situs, nervos ex foramine O prodeuntes suscipiens.*
F F. *Pinguedo per cranium expansa.*
G. *Pericranium periostio incumbens in situ naturali.*
I. *Idem à periostio separatum ac inversum.*
K. *Periostium supra cranium expansum.*
L. *Idem à cranio divulsum.*
M M. *Cranium nudum.*
N. *Sutura coronalis.*
P P. *Sutura sagittalis.*
Q Q. *Musculus temporalis pericranio adhuc tectus.*

FIGURA II.

Ablatâ calvariâ cerebri involucra detegit.

A A. *Dura meninx cerebri sinistram partem operiens.*
b b b. *Venæ & arteriæ per eandem sparsæ.*
C C C. *Cerebrum pia tantum matre vestitum.*
d d. *Anfractus cerebri.*
e e e e. *Vasa ad tenuem meningem sparsa.*
F. *Dura meninx deorsum tracta.*
G G G. *Sinus superior duræ meningi insculptus.*

Connectitur autem cum tenui meninge & cerebro per vasa, cum cranio, per fibras membranosas tenues, ex partis, per suturas egredientes, & pericranium constituentes.

Gemina est hæc Meninx instar aliarum membranarum. Pars exterior cranium respiciens durior est, asperior, & inæqualis, ob cranium durum, quod tangere debuit.

Pars interior lubrica est, lævis, splendida & candida, aqueo humore magis perfusa.

Quadruplicatur, ubi cerebrum à cerebello distinguit.

[illegible]

ACCADEMIA

quo loco [illegible] cerebrum [illegible] bellum prematur.

Falx. *Duplicatur* autem [illegible] capitis vertic[illegible] [illegible] parte po[illegible] [illegible] [illegible] [illegible] [illegible] corpus falcem vocant. [illegible] ita multiplicatur, constituit

Sinus superiores. *Cavitates,* [illegible] *sinus,* [illegible] receptacula sanguinis & [illegible] *quatuor,* [illegible] *Galen* [illegible] ventri[illegible] [illegible]

Primi. *Primi duo* incipiunt [illegible] [illegible] [illegible] & [illegible] [illegible] bus sanguinem, [illegible] [illegible] [illegible] *Galeno,* [illegible] nibus [illegible] [illegible] observavit etiam *FF. Bessin* [illegible] [illegible] [illegible] *Vesp* ras animadvertit. Hi duo inde nati

Tertius. Haemorrhagiae narium magnae causa quaedam. *Tertium* [illegible] [illegible] per capitis longitudinem perg[illegible] [illegible] *Galeno* [illegible] [illegible] [illegible] sanguinis continetur. [illegible] [illegible] [illegible] [illegible] per nares [illegible] quae per arterias [illegible]

Quartus sinus [illegible] [illegible] brevis est, & inter cerebrum ac cerebellum [illegible] glandulam pinealem.

Oritur in concursu sinuum trium priorum, & [illegible] [illegible] *torcular* vocant [illegible] [illegible] [illegible] [illegible] remotam causam admittimus interdum, venarum [illegible] [illegible] [illegible] [illegible] [illegible] cerebri [illegible] potest [illegible] [illegible] [illegible] [illegible] [illegible] parte in hunc sinum.

Tertius, sive falcis superior, & *Quartus* sinus [illegible] [illegible] [illegible] [illegible] *Fr. Sylvius* [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] concursus nullus sit, [illegible] [illegible] laterales [illegible] majores [illegible] tamen & [illegible] [illegible] [illegible] varietate aliquam diversitatem, [illegible]

conjunctos

[illegible] separant. *Riolanus* torcular [illegible] [illegible] sed longitudine, qua [illegible] partes [illegible] & cerebelli, quæ ratio [illegible] vera.

[illegible] ter hos jam descriptos quatuor sinus, *tres alii* ejus[illegible] ductu, se nobis in sectione obtulerunt, quos [illegible] non semper offendimus, & ideo adnotamus, ne quis, simul ac [illegible] in una aut altera sectione non viderit [illegible] nos statim falsi arguat. *Riolanus* pro cohærentibus [illegible] cerebri habet interveniente tenuis meningis majo[illegible]. Quod nihil est, cavitatem enim habent ut [illegible] nudæ sunt cohærentiæ. *Inferiores.*

Horum *Unus Vesalio* quoque notatus, per partem falcis infimam [illegible] & [illegible] nominavi[illegible] & [illegible] quem rectum vulgo dictum falcis [illegible]. Desinit hic sinus [illegible] in quartum.

Alii duo laterales minores [illegible] [illegible] à majoribus distant, in dura membrana cere[illegible] [illegible] distinguente siti nec adeo longi. [illegible] lateralem majorem abit, [illegible] & in quartum [illegible].

A [illegible] rami, seu venæ [illegible] jugulares, [illegible] sunt tantum continuationes [illegible] [illegible] [illegible] & in col[illegible] arteriæ carotides [illegible] & [illegible] [illegible] mutuisque anastomosibus in eos patentes. Ex [illegible] sinubus stylum in jugularē externā transmittere [illegible], quod *Lysero* nostro notatū Observarunt *Amste[illegible]* Anatomici, in sinū quartū si flatus immittatur, [illegible] choroidis vasa etiā penetrare, & per eundem si[illegible] [illegible], eadem vasa impleri.

[illegible] autem [illegible] in his cavitatibus admodum [illegible] cerebri [illegible] maxima est & non [illegible] alteram [illegible] [illegible] cavitates. [illegible] in cerebris virorum [illegible] & [illegible] [illegible] etiam iis, quibus tre[illegible] [illegible] *Riolano.*

[illegible] *Wilhelmus*, [illegible] majorum cavitates pluribus in [illegible] *cellulis*, quas à ibi *anfractuosas* cavitates vocat, [illegible] per varios anfractus in sinibus [illegible] [illegible] rap[illegible] [illegible]. Hos sinus in majo[illegible] [illegible] venis [illegible] videat. Præterea *fibras* in mem[illegible] [illegible] & veluti [illegible] [illegible] observat, quibus

mem

FIGURÆ EXPLICATIO

Dextram cerebri partem [illegible] etiam profun[illegible]

A. *Nasus.*
B. *Auris dextra.*
C C C C. *Portio cutis capitis dependens.*
D. *Musculi occipitis rudimentum.*
E. *Oculi orbita.*
F. *Os frontis.*
G. *Os occipitis.*
H H. *Latus cerebri sin[istrum] crassa sua meninge adhuc tectum.*
I I I. *Crassa dextri lateris meninx dependens.*
K K K. *Eius[illegible].*
L. *Falcis ad galli cristam extremitas.*
M M M. *Sinus falcis superior.*
N N. *Sinus falcis inferior.*
O. *Sinus lateralis dexter major.*
P. *Sinus falcis superioris in lateralem majorem ingressus.*
Q. *Sinus quartus inter cerebrum & cerebellum.*
R. *Sinus quarti in lateralem [illegible] ingressus.*
S. *Sinuum lateralium [illegible].*
T T. *Grandium [illegible] superioris [illegible] portio.*
V V. *Magna Cerebri fissura pars.*
x. *Ventriculi dextri pars inferior & exterior, qua carotidis arteriæ ramus [illegible] penetrat ad choroidem plexum.*
y. *Ventriculi dextri pars posterior & amplior.*
z. *Ventriculi dextri [illegible] cavitas [illegible].*
a. *Ventriculi dextri pars superior & anterior sub [illegible] pore.*
b. *Ventriculi dextri in tertium seu medium descensus & [illegible] ficium.*
c c c. *Plexus choroides glandulosus.*
d d. *Spinalis medullæ radix.*
e. *Spinalis medullæ radicis [illegible] cerebrum.*
f f. *Callosum corpus.*
g g g. *Cerebri pars [illegible] & inferior, callo so corpori continua, & ventriculi dextri cavitatem formans.*
h h. *Cerebri [illegible] falce apparens portio.*
i. *Arteriola ventriculi dextri perreptantis superficiem.*

[illegible] do c[illegible] natur, motu [illegible] ac vari[illegible]
[illegible] accelerātur vel [illegible], vel

[illegible] non tam continere [illegible]
[illegible]
[illegible]
[illegible] cerebri per
[illegible] & ve-
[illegible] superfluus [illegible]
[illegible]
[illegible] inde vero per [illegible]
[illegible]
[illegible]
[illegible] in cerebro quoque [illegible],

Gg [illegible]

OSPEDALE [illegible]

[illegible] juxta caput intruditur ad [illegible].

P. Laurenbergius spiritus animales in [illegible] [illegible].

A [illegible] *ferus* [illegible] [illegible] pro meliore cerebri usu & generatione spirituum [illegible] excrementa [illegible] sinus [illegible] [illegible] tanquam detergeret, quam recipere [illegible] [illegible] [illegible] protensam, alembico superiori assimilat, ad [illegible] [illegible].

Usus duræ matris est I. Cerebrum tegere, medullam & nervos inde oriundos.

II. Distinguere cerebrum in duas partes, & idem a cerebello.

III. [illegible] constituere, [illegible] ligamenta per suturas [illegible].

TENUIS MENINX vel PIA MATER ob tenuitatem [illegible] [illegible] cerebri [illegible] [illegible] *Columbus* [illegible], [illegible] [illegible] [illegible] quæ [illegible] [illegible] *Henrico Fabri* [illegible] [illegible] [illegible] *Venas* habet, *arterias* [illegible] [illegible], duas carotides & [illegible] vertebrales [illegible] [illegible] molecumantur, & fere ubique *plexus retiformes* constituunt.

Usus [illegible] cerebrum, cerebellum [illegible] & nervos vestire, [illegible].

CAP. III.

DE CEREBRO EJUSQUE MEDULLA IN GENERE.

[illegible]

[illegible] *interna*.

[illegible] CEREBRUM dicitur, [illegible] quem colorem [illegible] *Cerebrū proprie quid?*

[illegible] MEDULLAM vocare [illegible] *Medulla quam?*

[illegible] *Quomodo differant.*

[illegible]

[illegible] *Medulla partes.* [illegible]

[illegible]

De loco generationis animalis spiritus, nova opinio.

[illegible] vent [illegible] in quo nos [illegible] [illegible] [illegible].

[illegible] [illegible] & [illegible] [illegible], contra [illegible] opinio.

[illegible] vero & hæc oblongata *medulla* [illegible] vel [illegible] *intra calvariam* & [illegible] nervi oriuntur, quæ vulgo cerebro tribuuntur [illegible] *extra cranium* [illegible], & *in spinam* [illegible] *medulla spinalis*.

Nervorum omnium principium.

[illegible] vero [illegible] nervi tribuuntur, totus cerebri [illegible] dat [illegible].

Cerebri magnitudo.

Cerebrum majus quibus datum?

Cerebri [illegible] *Magnitudo* [illegible] est [illegible] proportione [illegible] *Aristotele*. Et [illegible] maximum homo [illegible] plus cerebri habet quam bos [illegible] [illegible] vel [illegible] pondus [illegible] & [illegible] & [illegible] [illegible] recti [illegible] stare [illegible] magnitudine [illegible] [illegible] [illegible], [illegible] plus cerebri [illegible] [illegible] in [illegible] Marco [illegible] [illegible] hom[illegible] plus [illegible] [illegible] cerebro [illegible] est [illegible] nes animales varias & præstantes exercere [illegible] cerebri [illegible] censuram *Adriani Spigelii* seu *Bucretii* incurrit, quam haud dubio ab illo im[illegible] [illegible] & magnæ [illegible] & doctæ [illegible] [illegible] & [illegible] [illegible] [illegible] [illegible].

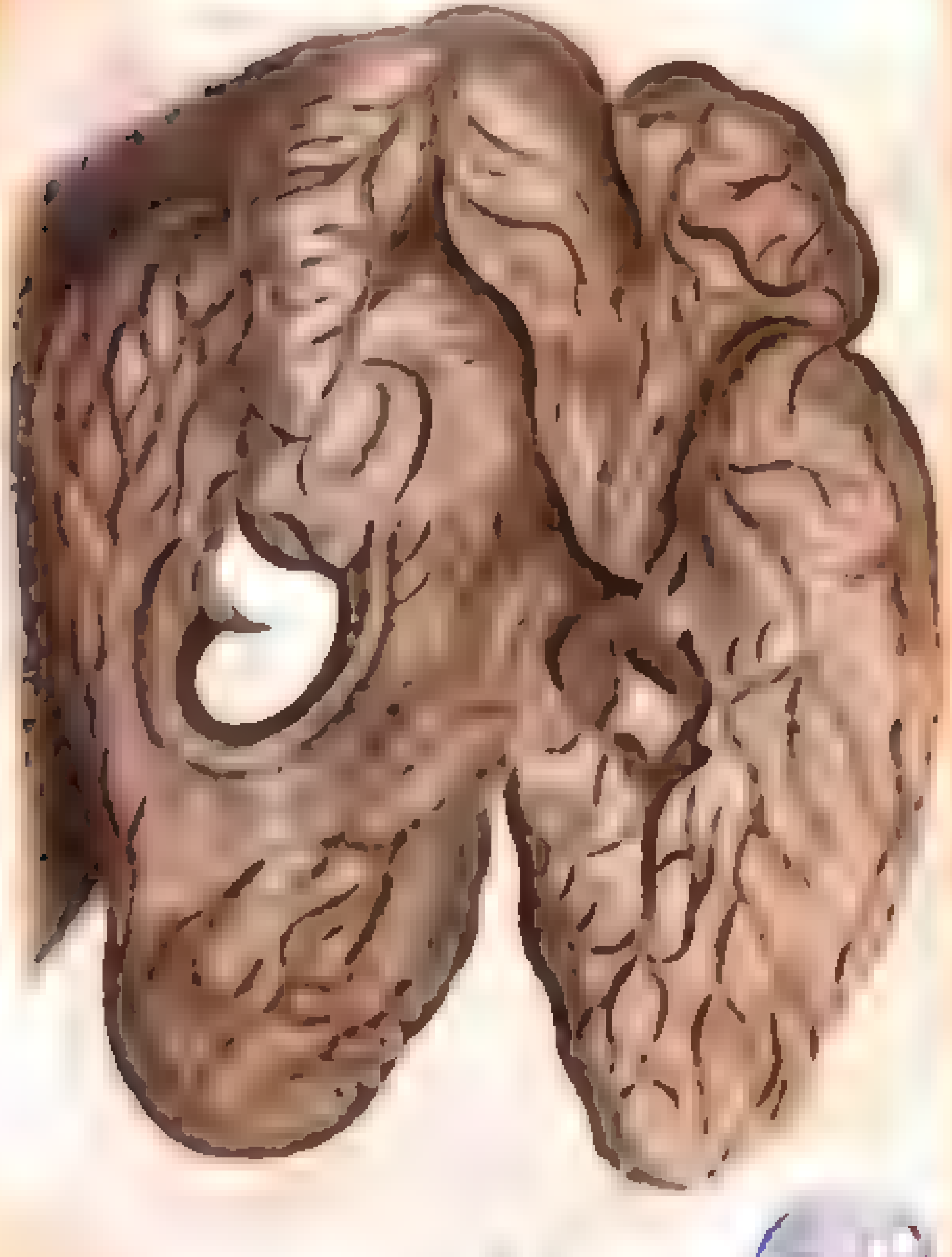
Tubera cerebri.

Figura [illegible] *tubera* [illegible] [illegible].

Cur cerebrum anfractus habeat?

Superficies externa [illegible] est [illegible] [illegible] [illegible] *Aristoteles* [illegible] [illegible] hoc [illegible] [illegible] [illegible] hos anfractus [illegible] [illegible] [illegible], [illegible] [illegible] maxime [illegible]. Aliter ex [illegible]

[illegible]



FIGURÆ EXPLICATIO

Figura hæc sinistrum cerebri latus in dextrum latus reclinatum præbet, ut & magnam ejusdem lateris fissuram.

a a. *Auris sinistra.*
b b. *Dependens capitis cutis.*
c c. *Ossis frontis pars.*
d. *Orbita oculi.*
e e e. *Cranii cavitas in qua cerebri pars inferior continebatur.*
f f. *Crassa meninx dependens.*
h h h h. *Cerebrum sinistrum tenui meninge investitum.*
i i. *Magna sinistri cerebri fissura supra spinalis medullæ radicem consistens.*
k k. *Spinalis medullæ radix sinistra, in fissura magna fundo apparens, cum novis anfractuum rudimentis, & vasis in eo loco distributis.*
l l l l. *Cerebri anfractus secundum quos carotidis arteriæ feruntur rami.*
m m m m. *Arteriæ carotidis propagines in sinum lateralem majorem sinistrum desinentes.*
n n. *Sinus lateralis sinister major, nimis angustus expressus.*
o o. *Sinus lateralis sinister minor.*
p. *Sinus lateralis minoris in majorem ingressus.*

Villosus, ob alimenti succosi uberiorem receptionem & commodiorem spirituum animalium dispensationem, ut imaginationis & memoriæ actus rectius perficiantur sine confusione.

Anfractus cerebri Anfractus si diligentius examinaveris, quod nos primum docuit *Fr. Sylvius* Anatomicus magnus, [illegible] cerebrum [illegible] per anfractuo[illegible] [illegible] ad eum oculorum [illegible] secundum tempora [illegible] cerebri par[illegible] procedat [illegible] communicetur, forsan etiam ad [illegible] tamen fissura illa magna reperiri vix po[illegible] majorem quandam fissuram late[illegible] [illegible]

[illegible]

[illegible] facile separabilem [illegible] etiam com [illegible] prope ventriculos, arteriis carotidibus refertam.

[illegible] *interna* habet varias exuberantias & cavita- [illegible] dentibus dicetur [illegible]

[illegible] latus *Sylvius*, [illegible] *substantia colore* [illegible] cerebro [illegible] facile a- [illegible] parte [illegible] albicante.

[illegible] est, quae ex [illegible], ut omnes partes, genera- [illegible] his ha- [illegible] *Prudentius* vocatur [illegible] Calor.

Quam [illegible] & medullaris alba [illegible] *Fracassatus* [illegible]

[illegible] in sero illo contento, à quo craneum [illegible] de & cortex cinereus [illegible] cinereum & [illegible] à sero & bile [illegible] ex vasis [illegible] & [illegible] [illegible] serum in medullam veluti coagulo detinere, sicut [illegible] sanguinis extracti infuso vitriolo sulphuris, [illegible] fuso, in album & sordidius velut [illegible] cogitur. Ventriculi [illegible] & ex plexu choroideo [illegible] [illegible] exponit Lympha, quæ [illegible] materiæ [illegible] cedente per nares aere & calore per vasa in [illegible] substantiam sensim concrescit & [illegible] quemadmodum ex [illegible] copio- [illegible] & quasi [illegible] poculis [illegible].

Temperamentum. *Temperamentum* est [illegible] & [illegible] ex [illegible] & [illegible] Unde *Hippocrati* cerebrum [illegible] frigidi & [illegible]. [illegible] & [illegible] cerebri [illegible] in phreneticis apparet. [illegible] Galenus, [illegible] non [illegible].

Cur mollis & humida sit substantia cerebri? SUBSTANTIA est peculiaris, qualis nulla alia in toto corpore. [illegible] *Hippocrates*, ob [illegible] & humoris copiam. Mollis est & humida ad facilem impressionem imaginum & conceptuum, [illegible] [illegible] tamen [illegible] [illegible] habet [illegible], ut quod [illegible] est [illegible]. Nam [illegible].

Pinguedinem esse [illegible] *Hippocratem*, de [illegible] *Bartholus*. Ad [illegible] certe pingue est. [illegible] oleosa [illegible] lympha [illegible] instar, [illegible] cum *Assuero Ruysch* expertus sum. [illegible] *Aristoteles* [illegible] Cerebrum [illegible] pingue [illegible] instar [illegible] testatur *Fr. Sylvius*. Quod [illegible] [illegible] [illegible] cerebri affectibus [illegible], quod sponte coagulatur in [illegible].

Constitutum cerebrum ex mollibus & plicatilibus fibris [illegible] [illegible] cerebro [illegible] objectarum. Egregie quidem sensus ratio [illegible]

[illegible]cant, si vera esset hypothesis. Sed tales fibrillæ in substantia cerebri [illegible] non observantur, nisi principium spinalis medullæ sumamus; ex quo nervorum funiculi [illegible]

Ratione [illegible] Cartesius ex fibris cutis, [illegible] appositione crescere [illegible] nullum exemplum ex[illegible] cerebrum membranas & vasa quibus con[illegible] Quamquam vero [illegible] nisi mente, non vi[illegible] novum & ingeniosum ex[illegible] de suis fibrillis notat 1. Singula plexus cancel- *De Fibris*
[illegible] Cerebri *filamenta* nihil esse aliud quam totidem tu- *Cere-*
[illegible] spiritibus patet introitus, quique continuo *bri.*
[illegible] glandulam pinealem, unde spiritus exiliunt, [illegible] atque [illegible] ad diversa illius glandulæ puncta [illegible] vertere possint. In fibris consentiens *Malpighius*, [illegible] se invenisse. Nec id opus censet *Fracassatus*, [illegible] aptas devehendis spiritibus regulares cavita[illegible] tortuoso itinere non frangantur [illegible] per implicita filamenta [illegible] *filam* [illegible] producere [illegible] At postquam hæc filamenta [illegible] texta, longe a [illegible] descen[illegible] ad [illegible] nervorum componen[illegible] memoriæ [illegible] 3. Præcipuas filamento- 3.
[illegible] esse, [illegible] tangantur, [illegible] variis modis [illegible] flectique possint [illegible] vel cera essent [illegible] quam [illegible] affecta, donec [illegible] contrario modo agentibus, imprimantur. 4. [illegible] 4.
[illegible] intervalla, quæ inter hæc filamenta repe[illegible] diverso modo extendi & constringi possint [illegible] in eo fere recipientium. 5. Naturalem filamen- 5.
[illegible] *positionem* [illegible] ductus porique deducere possint [illegible] agitatos, [illegible] nervos, in quos [illegible] eos [illegible] 6. Filamentis a [illegible] 6
[illegible] compressis, somnum irrepere, impedito [illegible] egressu & spiritibus.

[illegible] quas [illegible] fibras & canaliculos *Fibra-*
[illegible] figuram, ortum & exitum [illegible] *Malpighius* posteo *rum.*
exhibet.

Figura depresse rotunda, non absimilis albis illis corpo- *Figura*

 ribus

[illegible] ut [illegible], quibus [illegible] At tur. Ex fibris diversimode positis cor[illegible] instar *glandis* [illegible] *Bracastanus*. H[illegible] [illegible] inveniat, [illegible] p[illegible] [illegible].

Origo. *Ortus & Progressus.* Ortus est a [illegible] A [illegible] *terminus* [illegible] *de finans.* In cerebro *progressus* fit ex [illegible] [illegible], [illegible] & [illegible] [illegible] [illegible] [illegible] & [illegible].

Existentia. *Existentiam* [illegible] [illegible] [illegible] [illegible] [illegible] *Fracast.* [illegible] [illegible] [illegible] per microscopium [illegible] [illegible] per [illegible], at effixit [illegible] [illegible] diversimode positæ. Sunt qu[illegible] [illegible] vel tres quæ [illegible] cavitate [illegible] donec, ad quem [illegible] [illegible] cerebri substantiam in [illegible] [illegible] corpore.

Dubia. C[illegible] [illegible] [illegible] est, sed a [illegible] [illegible] [illegible] *Hortlmus*, [illegible] F[illegible] [illegible] *Schenckius* tamen, *Ex Teresia Carpus &c.* [illegible] sine cerebro [illegible] & *Nic. Fontanus* Amstelodami Anno 1629. [illegible] cerebri & spinalis medullæ [illegible] deprehendit, [illegible] [illegible] [illegible] Suecicum, cujus cerebrum [illegible] fuit.

In cerebro terræ [illegible]. *Vasa* [illegible] [illegible]. Nam si ejus [illegible] [illegible] copio [illegible] [illegible] & [illegible] capillares [illegible], [illegible] non raro [illegible] [illegible] notante *Fr. Sylvio*, [illegible] & [illegible], quæ [illegible] a vasis ce[illegible] & [illegible] ali[illegible] causam [illegible] *Sylvius* experi[illegible] per [illegible] [illegible] [illegible] [illegible] pulveris [illegible] substantia [illegible] appa[illegible].

Nervi. *Nervus* autem nulli per cerebrum [illegible] [illegible] fus expers est omnis.

Vena

[illegible] per cerebri substantiam feruntur [illegible] Ra- [illegible] quorum aliqui eralæ [illegible] per meninges & cerebri [illegible] [illegible] exigui qui utrinque [illegible] substantiam cerebri, ex [illegible] matris cavitatibus, quibus continuari antea diximus.

[illegible] ex Carotidibus & cervicalibus, [illegible] cerebrum, aliæ ad cerebrum [illegible] [illegible] simplex tunica, [illegible] cranium. In [illegible] arteriæ carotides plurimæ feruntur tum in [illegible], [illegible] capitis dolores [illegible] pulsatione accepta [illegible] & extenuatione arteriarum [illegible] [illegible] A [illegible], quod cum doloris [illegible] apertis [illegible]

[illegible] non [illegible] cerebrum, [illegible] locum [illegible] choroides plexus [illegible] Vesalii, quæ accipiunt serum ab arteriis & [illegible] venas vel [illegible] *Stenonio* tamen [illegible] lymphaticis [illegible] parte [illegible] plexus [illegible], *Malpighius*, [illegible] habet pro [illegible], [illegible] exsu- [illegible], & [illegible] [illegible] [illegible] lym- [illegible] cerebrum ex lympha- [illegible] lympham ex [illegible] [illegible] deducunt.

Usus. [illegible] cerebri [illegible] *Aristotelem* est [illegible], [illegible] *Galenus*, cui [illegible] de cere- [illegible]. Sunt tamen inter Peripateticos qui *Aristotelem* [illegible] Medicis dissentire negent, [illegible] ille cerebrum [illegible] fervorem temperandum, [illegible] pro- [illegible] animam [illegible] volunt [illegible] generationem [illegible] vitalium [illegible] generatio- [illegible] posse. Sed [illegible]

[illegible] sensum [illegible] [illegible] autem cerebrum [illegible] particulare sentiendi [illegible] oculi, aures, & [illegible] universale, nam [illegible] fit in cerebro.

Motus. [illegible] vero animali [illegible] agnoscit, ab arteriis communicatum, cumque per [illegible] & constrictiones, ut liquet in vulneribus, item in recens natis [illegible]

[illegible]

si in parte cerebri anteriori [illegible] conficiatur, quia [illegible] bilima sunt, necdum satis indurata.

In dilatatione cerebrum vitalem spiritum cum sanguine arterioso attrahit, ex arteriis carotidibus; itemque aërem per nares.

In contractione spiritum animalem in nervos propellit, qui in totum corpus, tanquam canales, hunc spiritum devehunt, unaque cum spiritu, facultatem sentiendi & movendi. Eadem contractione sanguis ex sinubus per venas expellitur ad cor.

Spiritus animalis materia. Spiritus ergo animalis materia est duplex, vehiculum sanguis arteriosus, spiritu vitali perfusus; & aër. De loco generationis postea dicetur. Non enim cum his facimus, qui in cerebri substantia aut ventriculis illis anterioribus generari volunt hunc spiritum.

2. Ut in cerebro coerceantur & serventur, tanquam in promptuario spiritus animales, jam antea generati & confecti. Et convenientius certe spirituum animalium domicilium atque receptaculum est cerebri substantia, cum eadem sit, quae substantia nervorum medullaris interna, quae spiritum illum animalem etiam continet.

De usu cerebri ejusque medullae nova auctorum opinio. Putamus autem in cerebro proprie dicto, vel cortice, servari spiritum animalem pro sensu, in medulla vero tota tam quoad caput, quam quoad caudam, reservari spiritum pro motu: quod sequenti capite manifestum evadet.

3. *Mœbio*, ut coctione arteriosi sanguinis spiritus animales e vitalibus elaborentur. Hac coctione materiam lubricantem & oleaginosam è subtiliore sanguinis arteriosi parte elaborari, quae non cerebrum tantum ac nervos nutriat, sed cum spiritibus animalibus ad partes delata nutritionem in iis cum arterioso sanguine perficiat. Hinc brachium in paralysi, salvis vasis sanguineis, contabescit. Caeterum nutritiam materiam ex cerebro non provenire per nervos infra probabimus.

4. *Malpighii* judicio, corticis hac carne veluti filtro separatur serum ex arteriis meningum, & per fibrillas cerebri inde in elongatos nervos derivatur, residuum autem tubulis recollectum per venas [illegible] praecordia refluit. Hoc serum plures in cerebro & medulla oblongata secretum [illegible] spiritibus vel commeandis vel [illegible] idoneum. Si vero vel propter crassitiem, vel excrementorum affluentiam fit impar [illegible] in meatibus subeundis, ex stagnante in cerebro Epilepsias & Apoplexias excitari. Lymphae forte metro-

polis

[illegible] Duo præterea probanda essent 1. fibras esse cavas. 2. lympham ad nervos in statu naturali ferri [illegible]

5. *Willisius* in cortice cinereo spiritus animales *procreari* [illegible], quia 1. [illegible] hic liquor subtilis à san-[illegible] & excipitur. 2. Sale volatili imbutus li-[illegible] hic in spiritus puros. 3. Animalia, imprimis aves [illegible] corticem & cineream partem fere solam habent. [illegible] in medullis quoque à cervicalibus medulla recipit. 2. M[illegible] idem sal volatile possidet. 3. Animalia & aves [illegible] spiritibus, quot homo.

[illegible] generari potius in minore parte medullari, quam amplo cortice. Non solere nobiles actiones ab externo [illegible] peragi, sed interioribus recessibus.

In [illegible] seu corpore calloso spiritus animales *dispensari* & velut in campum amplissimum ferri probat idem, quia 1. sanguis paucus hanc partem irrigat, caloris potius [illegible] quam ut spiritus generentur. 2. Simplex est medullæ [illegible] & spinali, quam ut [illegible], nisi generat o-[illegible] hoc in verum credit, quod sicubi obstructio [illegible] quicquid inferius est, spirituum influxu de-[illegible] Favet & nobis [illegible], quia ex [illegible] & generatio & dispensatio. A [illegible] idem autor spirituum animalium multas [illegible] non est ansi pro materia, quam cervi-[illegible]

6. *P* [illegible] non cerebrum tantum imaginationis esse [illegible] in omnibus corporis nervos continuari [illegible]. Non minimus [illegible] est *Stenonius*, [illegible] operationes omnes non soli cerebro, sed spi-[illegible] medullæ, tanquam primæ scaturigini, adscri-[illegible] pauci nervi è proprio cerebro oriuntur. 2. Plures [illegible] medulla exire videntur, [illegible] qui à cere-[illegible] per transversam sectionem spinalis medullæ immedia-[illegible] transire possent. 3. In [illegible] spinalis medullæ crassities eadem per-[illegible] spinæ ductum, in aliis animalibus circa lumbos [illegible] spinalis medullæ crassities multum augetur, & in avibus eodem in loco cavitas rhomboidalis formatur. 5. [illegible] ligata aorta descendente fine prævia [illegible] partem post se omnium motum voluntarium [illegible] cessisse, quoties vinculum stringeret, iterumque [illegible] redire, quoties nodum laxaret.

Cap.

CAP. IV.

DE PARTIBUS CEREBRI in specie & 1. de medulla oblongata & spinali, ejusque ventriculo nobili.

Cap. in sectio vera ab inferiore parte incoanda. *Vide hujus sectionis figuram libro de Nervis.* *Principium spinalis Medullæ.* *Objectio.* *Responsio.* *Medullam esse principium & originem cerebri, nova Authoris opinio.* *Probatio.*

FA... in cerebro con[illegible] *Constantius Varolius* [illegible] & accurata [illegible] *Varolius* opinionis [illegible] [illegible] & accuratam [illegible] partes in duas [illegible] [illegible] *Constantini Varolii* [illegible] [illegible] & accurato, [illegible] & [illegible] [illegible] pro [illegible] cum & [illegible] tertia & quarta [illegible]

O[illegible] in ima parte cerebri, occurrit [illegible] *Medullæ oblongatæ principium*, [illegible] vertebras [illegible] *spinalis* [illegible] *medulla*.

Q[illegible] pars a cerebro [illegible] ab eo [illegible] principio, [illegible] & [illegible] [illegible] & [illegible] [illegible] partes [illegible] [illegible] [illegible] medullæ.

[illegible] bus Anatomicum [illegible] medullæ caput & [illegible] est ma[illegible] [illegible], processus vero [illegible] [illegible] quo [illegible] [illegible] ac [illegible] ad [illegible] vel cortex, ad motum [illegible] [illegible] ad sensus [illegible] vero [illegible] [illegible] motum [illegible] corpus facere. In [illegible] ovo [illegible] contento [illegible] cerebri [illegible] accedere [illegible] observatur. Et antequam [illegible] conf[illegible] punctus.

MEDULLA OBLONGATA o[illegible] cerebro [illegible] cerebel[illegible] pium [illegible] [illegible] Oritur enim quatuor radicibus seu fundamentis [illegible] ma[illegible], ab anteriori, cerebri [illegible] parte [illegible]

[illegible]

[illegible] parte anteriore. Ex [illegible] vocatur [illegible] Sed [illegible] parirur, origi- [illegible] processus [illegible] ut ante dictum.

[illegible] est [illegible] *Vilisso* [illegible] per longum in medio [illegible] utrinque *[illegible]* [illegible] & [illegible] *[illegible]*, [illegible] *[illegible]*, quæ [illegible] *progressum* [illegible] a corporis [illegible] quasi [illegible] a cerebro in medio [illegible] [illegible] a parte inter [illegible] & [illegible] quasi [illegible] a medio [illegible] [illegible] Corpora *striata* [illegible] ac invicem com- [illegible] nervi in- [illegible] corpori [illegible] protensus, ut corpo- [illegible] non [illegible] Circa cor- pora [illegible] extremitate nervi olfactorii [illegible].

Pars [illegible] intra *cranium* est [illegible] supra magnum occipitis foramen. Alia ejus pars & quidem longissima, *extra cranium* est in vertebris à prima cervicis, usque ad ultimam ossis sacri.

Divisio medullæ spinalis.

Figura est oblonga & rotunda. *Scriptura* vocat funem [illegible]. In principio vero crassior est & amplior.

Dividitur ulterius in partem *dextram* & *sinistram* [illegible] & cerebrum [illegible] à pia matre, quæ [illegible] quod apparet in bovis medulla leviter cocta. Hinc paralysis [illegible] vel alterius lateris esse potest.

Alia divisio.

[illegible] in multos [illegible] fasciculos, circa [illegible] & [illegible] thoracis vertebram [illegible] & si recentis cada- veris medulla spinalis statim [illegible] & hæc [illegible] fasciculorum separatio, figura [illegible] cau- [illegible], præterim circa [illegible] oblon- [illegible] ut secundum *Laurentium* etiam dorsales & lumbares [illegible] a cervicali medulla oriantur.

Membrana integitur duplici. [illegible] immediate [illegible] est à pia matre.

Tegumenta medullæ.

Secunda est à dura matre & [illegible] adhæret. [illegible] *[illegible]* [illegible] intervallo [illegible] ligamentis [illegible] [illegible].

[illegible] [illegible] secundum *Galenum* à [illegible] partis vertebrarum [illegible] quod [illegible] tunicam [illegible] in spinæ [illegible] [illegible] membrana.

[illegible] crassos & viscosos humores ad [illegible].

Postea

FIGURARUM EXPLICATIO.

Ventriculum cerebri quartum, cum cerebello, & in corpus callosum exhibet variis iconibus.

FIGURA I.

A A. *Cerebellum ejusque globi.*
B. *Processus cerebelli vermiformis.*
C C C C. *Processus cerebelli Pontem Varolii sic dictum innuentes.*
D. *Spinalis medullæ principium.*
E E. *Duæ radices seu processus minores spinalis medullæ à cerebello orta.*
F. *Quartus cerebri ventriculus calamo scriptorio comparatus.*
G G. *Cerebri portio cerebello adhærens.*

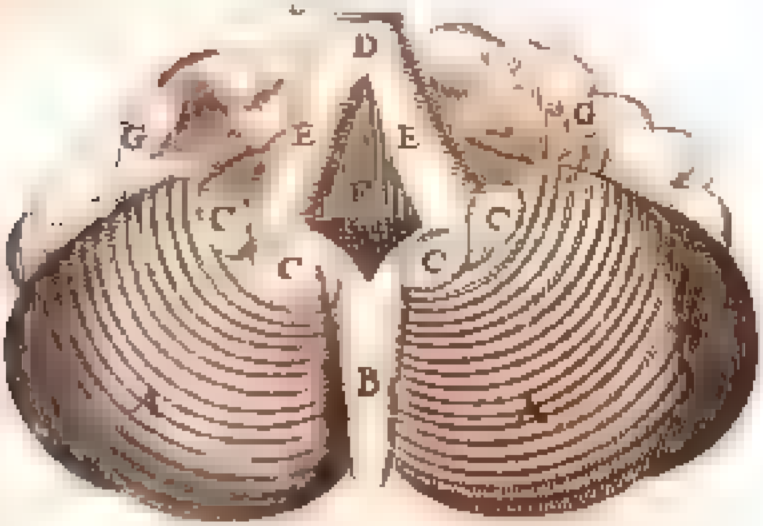
FIGURA II.

A A.* *Interna cerebelli & albicans substantia.*
B b B. *Exterior magis obscura albicantemque ambiens substantiam.*
C C C C. *Structura elegans cerebelli ramosas arbores repræsentans.*

FIGURA III.

A A. *Cerebri per medium usque ad ventriculos secti facies.*
B B. *Corpus callosum ad sinistram nonnihil diductum.*
C. *Portio falcis ad posteriora reflexa.*
D D. *Ventriculus anterior dexter parte superiore detectus.*
E E. *Ventriculus sinister similiter apertus.*
F F. *Plexus choroides.*
G. *Septum seu septi lucidi portio.*
H H. *Dura meninx utrinque detracta.*
I I. *Crura duo, seu processus fornicis.*

Fig I



II

Postea includitur medulla in vertebris, ne lædatur [illegible] cerebrum [illegible] rum principem. Ideo spinæ partem perforatam *vagin[illegible]* [illegible]

In [illegible] pro hujus medullæ, dum adhuc in cranio [illegible] est, [illegible] visitur.

Ventriculus nobilis in medulla. SINUS vel CAVITAS, quam Galenus *cerebelli ventriculum* vocat, alii *quartum cerebri ventriculum* [illegible] men in cerebro non sit. Nos *ventriculum medullæ* [illegible] vocabimus.

H[illegible] est, [illegible] mus, nam rem majorum virtutum & facultates continere, ait Galenus.

Et quia post ductum quendam æqualem utrinque [illegible] [illegible] hanc figuram *calamus scriptorius* à nonnullis dictus est.

Ventriculus nobilis à peculiis ex cerebello. A cerebro hic autem [illegible] [illegible] cavitas [illegible] & [illegible] oblongatam [illegible] quæ in medulla.

Vires loco generationis animalium spirituum secundum Aquapend. Probatur. [illegible] ventriculum principalissimum existimavit.

[illegible] Animal [illegible] allig[illegible] liberatione scripserunt, equidem augurari nequeo.

Nec putandum cum *Spigelio* [illegible], quartum hunc ventriculum tantum per [illegible] [illegible]

A[illegible] lumen animale circa pinealem glandulam vel serum [illegible] & vas[illegible] substantia debilitans, vel animales spiritus repono.

A[illegible] excrementis [illegible]

[illegible] unt receptacula, ut apparet ex subiecta [illegible] [illegible] plet: reperiantur & aqua copiosissima.

Alij in rete mirabili, alij in plexu choroide.

[illegible] Solet [illegible] per [illegible] [illegible]. *Praeparatio animalis spiritus ubi?*

[illegible] cerebri substantia elaborare. Alij in spi[illegible] [illegible] cavitatem requirebat aliquam, quae & [illegible] [illegible] quia in epate nulla est cavitas.

Nobis [illegible] sententia est, spiritum animalem praeparari [illegible] & [illegible] choroide generari [illegible] hac [illegible] [illegible] posteà vero [illegible] & [illegible] non derivatur, & abundat, conservari & [illegible] toto cerebro tanquam promptuario.

Unde [illegible] oblongatae & spinalis est, ut [illegible] Ab eius [illegible] parte, quae intra cra[illegible] nervi, qui vulgo cerebro tribuuntur, & [illegible] septem paria recensentur. A parte vero [illegible] nervorum, quot videlicet sunt vertebrarum foramina. *Omnium Nervorum principium est haec medulla.*

[illegible] ita intelligendum, ac si tot duntaxat rami [illegible] oriantur. Nam [illegible] nervus [illegible] fibris oriuntur, quae [illegible] per [illegible] vertebrae [illegible] per membranas iunguntur, [illegible] propagine factus nervus egrederetur.

[illegible] medullae oblongatae [illegible] ex annulo ma[illegible] *chorda medullaris* procedit, sicut [illegible] *Willisius* quae [illegible] trunco [illegible] recta pergunt, ac [illegible] *pyramidum* [illegible] *pars* [illegible] & in medulla oblongata [illegible]. Suspicatur *idem* [illegible] *ductus*, in quibus a cerebello ad nervos perducantur.

CAP. V.

DE CEREBELLO.

Cerebel [illegible] C[illegible] occipitis regionem occupat.

[illegible] [illegible] *colorem, motum, &c.*

[illegible] circuli possunt ex im.

Substantia [illegible]

[illegible] [illegible] [illegible]em definiunt.

Con[illegible] [illegible]

Processus. *Pro[illegible]* [illegible] extremitas tend[illegible] & [illegible]

Sup. vero [illegible] anteriorem [illegible]

C[illegible] Cerebelli *pontem Varolius* appellavit.

Inter Pon[illegible] & [illegible]

[illegible] *Prima* [illegible] *Secundus* [illegible] per primam [illegible] transiens, medull[illegible]

gam

[illegible] protuberantiam *annularem* con-[illegible] [illegible] de [illegible] [illegible] [illegible] *Protuberantiam annularem* vide [illegible] [illegible] profluentes, [illegible] que ne-[illegible] [illegible] hac immediate [illegible] [illegible], qui [illegible] [illegible] [illegible] [illegible] [illegible].

[illegible] [illegible] [illegible] & [illegible] demonstrat ce-[illegible] [illegible] [illegible] & in [illegible] [illegible] secundum [illegible] suas p[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] & [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] cum [illegible] [illegible] cavitationi, [illegible] [illegible] [illegible] [illegible] [illegible]. Deinde vero [illegible] protuberantiam in [illegible] in volucribus & aliis animalibus.

[illegible] [illegible] [illegible] est, de ventriculis nobilis à cer[illegible] [illegible] [illegible]. *Laurentio*, ut [illegible] ventri-c[illegible] [illegible] valvul[illegible] [illegible] [illegible] [illegible] ven-[illegible] [illegible] [illegible], [illegible] est à [illegible] ad quartum ventri-c[illegible] [illegible] [illegible] [illegible] [illegible] spiritus [illegible] [illegible]. [illegible] *Riolanus*, [illegible] & [illegible] ventriculum. Sed per se non [illegible] [illegible], ut [illegible] motus proprii est expers, [illegible] vasis [illegible] [illegible] [illegible] [illegible] [illegible], vel [illegible] [illegible] animalibus vicinis.

Pontem autem [illegible] [illegible] [illegible] cerebelli [illegible] com-[illegible] & [illegible], pariter [illegible] [illegible] ventriculum [illegible]. [illegible] *septimum* [illegible] [illegible] [illegible].

Usus cerebelli idem qui cerebri. *Galeno* vero, ut inde [illegible] [illegible] [illegible]. Nam [illegible] nervi [illegible] [illegible] [illegible] processibus [illegible] [illegible] ad [illegible] [illegible], [illegible] memoriae sedes. [illegible] [illegible] est [illegible] [illegible]-gationis. Usus.

Usus novus Willisii est [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] *actiones* [illegible], [illegible] [illegible] [illegible], [illegible] cõcoctio, chyli [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] naturalibus [illegible] [illegible] & [illegible] & ex [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] & [illegible] [illegible]

[illegible] vel [illegible] vel [illegible] [illegible]. A[illegible] [illegible] equa[illegible], & [illegible] [illegible]. I[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] cerebro [illegible] & [illegible] [illegible] dependere [illegible] [illegible] nervi [illegible] [illegible], quanquam & [illegible] [illegible] nervi [illegible] [illegible] [illegible] [illegible] nervos [illegible] moveatur, & pulmones sine nervo.

CAP. VI.

DE RELIQUIS QUÆ IN CEREBRO observantur partibus; Reti mirabili, glandula pituitaria, infundibulo, ventriculis cerebri, corpore calloso, fornice, plexu choroide, glandula pineali, &c.

P[illegible] [illegible] has considera[illegible] [illegible] faciendi[illegible] [illegible] [illegible] nervo[illegible] [illegible] [illegible] [illegible]. *Rete mirabile, glandula pituitaria, & infundibulum.*

Rete mi-rabile. RETE MIRABILE [illegible] aliis *plexus retiformis*, ita dicitur ob [illegible] [illegible] & [illegible] [illegible] structuram, apparet [illegible] [illegible] [illegible]. [illegible] vero [illegible] [illegible] habet in vitulis, & [illegible] [illegible] [illegible] conspicitur [illegible], in quo tamen [illegible] [illegible] est [illegible] *Vesalius* [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] potest, cum etiam in [illegible] adsit.

Vesalij error.

Subjicitur hoc rete cerebri basi, glandulam [illegible] ambiens, in [illegible] [illegible] [illegible] complectitur [illegible] lateribus sellæ ossis sphenoidis.

Constat non ex nervis tertiæ conjugationis, ut vult *Vesalius*, [illegible] ex arteriis carotidibus & cervicalibus a corde [illegible] ad basin cerebri quæ sanguinem & spiritum vitalem in hoc rete deferunt.

[illegible] ad basin cerebri [illegible] collocat *Rondeletius*, [illegible] propaginem choroidis plexus qui anteriores ven-

[illegible] quanquam hunc plexum pro rete [illegible]

[illegible] in eo [illegible] moretur sanguis & [illegible], ut fiat prima præparatio pro generatione [illegible] 2. *Wepfero*, ut sanguinis [illegible] ad cere-[illegible] prono [illegible] *Schneiderus* 3. Ut [illegible] pars [illegible] demandetur, pars [illegible] *Wvilisio*. [illegible] *Wil-lisius* [illegible] ex [illegible] ramulis sine [illegible] præparatione.

[illegible] est *Willisii* [illegible] partem ab alia, [illegible], hujusmodi valorum plexus reperiuntur.

Glandula Pituitaria ita ab [illegible] dicta, quod ex-crementa cerebri ex ventriculis per [illegible] fusci piat (ideo ad finem [illegible] ponitur [illegible] dia, *Galeno* simpliciter dicitur glandula. — *Glandula pituitaria.* *Situs.*

Superne concava est, interne [illegible]. — *Figura.*

Substantia [illegible] compactior quam [illegible] glandularum. — *Substantia.*

Vestitur pia matre.

Excavatam glandulam esse multi [illegible], quod de externa tantum seu sinu externo *Schneiderus* concedit. At cavitatem sæpe in ea notavit *Stenonius*, [illegible] ob vasa superficiem ejus perreptantia plurima, tum ob tu-berculum [illegible], quod in [illegible] lateris [illegible] & in opposito latere cavitatem [illegible] humor inveniatur. — *Cavitas.*

Vasa sanguinea apparent, [illegible] *Willisii* ductu [illegible] [illegible] glandula enim ea parte [illegible] — *Vasa.*

[illegible] est idem qui aliarum glandularum, carne [illegible] instar spongiæ excipere excrementa [illegible] ventriculis [illegible] cerebrum mole magna [illegible] excrementa [illegible] glandula modo in palatum [illegible] basis cranii foramina. Hunc [illegible] magni de [illegible] *Wepferus*, [illegible] excrementis [illegible] [illegible] — *Usus.* *Excrementa quomodo [illegible]*

[illegible]

FIGURÆ EXPLICATIO.

Sublata fornice spectatur glandula pinealis ut & tertius cerebri Ventriculus inter duos anteriores medius.

A A. *Cerebrum aequali sectione explanatum.*
B. *Fornix sublata & retrorsum reflexa.*
C C. *Ejus expansiones, seu crura postica.*
D D D D. *Ventriculorum dextri & sinistri fundus, in quo anterius vascula apparent.*
E E. *Eorum latera seu parietes.*
F. *Foramen anterius tertii Ventriculi aliis Vulva dictum.*
G. *Rima tertium ventriculum designans.*
H H. *Protuberantiae cerebri quae Nates dicuntur.*
I I. *Protuberantiae Testes nominatae.*
K. *Glandula pinealis.*

[illegible]. Nec [illegible] adesse. Vesaliana enim esse falsa, [illegible] aliud agere.

Alii [illegible] recipere aquosum humorem seu tenuem & [illegible] emittere. Recipere ex tertiis [illegible] superfluo [illegible] ejusque tertii excrementis, seu vel abire in ab[illegible] vel per membranas & [illegible] glandulam, quod *Rolfincius* credit, vel per [illegible] partem [illegible] [illegible] velut per [illegible], sicut *Wharton* & *[illegible]* ad subjectas & vicinas partes, [illegible] ad [illegible] vel paulatim destillare ad uvulam ad irrigandas fauces, vel pituitam in mucum concretam per nares & os excerni, judice *Fr. Sylvio*. Verosimile est [illegible] glandularum lympham [illegible] & recipere sensim & paulatim expellere.

Alii cum *[illegible]*, quos tamen non defendimus, [illegible] glandulae [illegible] est, [illegible] egrediantur. Nam [illegible] glandulam [illegible] est.

Infundibulum, dictum à *figura*, nam superne caput [illegible] amplum est, inferior pars est angustus canalis & [illegible]. Alii *pelvim* vocant, quae vox rectius de capite infundibuli seu parte priore diceretur.

Est ergo *infundibulum* cavitas orbicularis, non nunquam [illegible] vel obtusis angulis vel acutis, facta ex pia matre, [illegible] basin attingit, unde & cerebri ventriculi inve-

investiuntur. Subtilior alia tunica [illegible] vocant obvelari Plempius scribit, valde sensibili, unde Schneiderus negat serum aere hic recipi. Ejus initium [illegible] est, ad foramen tertij, ut vocant, ventriculi, undique [illegible] substantia foramen quart. ventriculi continuatum, ex VVhartoni observatione, & tenui [illegible] foramen [illegible] tegens: ne humores alio decidant, nam per hoc foramen ex ventriculi excrementa in [illegible] descendunt.

Canal [illegible] *Riolano* [illegible]
p[illegible] [illegible]
[illegible] accumbentia sellæ sphenoidei.

Usus est [illegible] & [illegible] [illegible]
[illegible], [illegible]
[illegible] vel exhaustae [illegible] per alias [illegible]
[illegible], [illegible] expirationis [illegible]

[illegible] duæ [illegible] sive [illegible]
in [illegible] unica major, hujus meatui præponuntur [illegible]
parte [illegible] a [illegible] ac [illegible]
[illegible]. Nihil [illegible] Anatomicis [illegible]
[illegible] *Mercurius* [illegible]
[illegible]
que [illegible] directa [illegible]

III. [illegible] in sectione NERVORUM ORI-
GO, [illegible] medulla, qua de re in libello de nervis.

VENTRICULI *cerebri* seu CAVITATES sequuntur.

H[illegible], si sectio communis fiat a superioribus incipiendo,
[illegible] esse *duo anteriores* & superiores, [illegible] vocant
[illegible] *medium*, [illegible] addunt *quartum*, de quo nos [illegible]

S[illegible] nova fiat, ab inferioribus ordiendo, duo
[illegible] ut tertius communis, fiat portio reli-
qua [illegible].

Unicum esse cerebri ventriculum Auctoris sententia.

Nos [illegible] *unicum esse cerebri ventriculum*, qui in me-
[illegible] est, [illegible] vel [illegible] proces-
sus, qui [illegible] incrementa [illegible]
[illegible] vocant. Cavitas enim una & continua
cerebri, & duo dicti ventriculi in communem cavitatem
desinunt.

Interim, quia pars cavitatis alia atque alia diversimode
formata videtur, distinctio aliqua doctrinæ ergo admitti
potest.

Ventriculorum anteriorum descriptio Vera.

Duo illi *ventriculi* qui male *anteriores* & *superiores* [illegible]
citantur, quia etiam in *postica* parte cerebri & *inferiore* [illegible]
[illegible], [illegible] melius laterales [illegible], & [illegible]
dexter & sinister, impari [illegible] sunt, obliqui, anfractuosi, semi-
circulares, pia matre vestiti.

[illegible] non male passim assimilantur [illegible]
[illegible] [illegible]
[illegible] obliqui [illegible] sunt, & postica [illegible] parte [illegible]
[illegible] posse [illegible]
[illegible] primus [illegible] accuratius [illegible]
Sylvius, post eum sæpius a me demonstratam. Si [illegible]
figuram invenire velis, profunde cerebrum secans [illegible]
[illegible]

[illegible] seu temp[illegible] profunde calloso corpo[illegible]. Elatior enim est pars ventriculorum ver[illegible] [illegible] depressior versus laterales [illegible] par[illegible]tes. Anteriores partes profundiores, [illegible] sunt processibus mammillaribus, & si credimus *Piccolomineo*, *Bauhino*, [illegible] [illegible] pervia, præsertim in senibus.

[illegible] præterea [illegible] parte sua posteriore recto ductu, [illegible] non assimilem for[illegible] hanc aliquando abesse memini.

N[illegible] per ventriculos hos amittere spinalis me[illegible] [illegible] laterales & posticas partes, quas præterea [illegible] ambo quasi & simarum complectitur, [illegible] concamerat omnem continens cerebri pars [illegible] contorta attenuata, & ob similitudinem Lumbus à laudato *Sylvio* vocatur, [illegible] radicibus per tenuissima filamenta adhæret. Lumbum hunc, si [illegible] plexu, à radice removeris, arteriolas reperies inferiorem ventriculi superficiem perreptantes, reticulari [illegible] radicem investienti continuas, qua[illegible] [illegible] videtur quoque hic lumbus radici propius adh[illegible].

C[illegible] hic observabis facilem esse humori in dictis [illegible] exitum, & secundum spinalis medullæ [illegible] descensum.

[illegible] igitur non in cortice cerebri, sed medulla, [illegible] vocant *corpus callosum*, quia substantia hic est [illegible] anterioribus [illegible] ventriculi.

[illegible] calloso *Wellisius* plures *lineas albas parallelas* concipit, quæ cerebri [illegible] angulis re[illegible] [illegible] *tractus* quosdam, seu *vestigia*, in quibus [illegible] [illegible] ab uno cerebri hemisphærio in alterum [illegible]. Eodem auctore, in corpore calloso quasi [illegible] *emporio* [illegible] [illegible] a singulis [illegible] & [illegible] continua separatur [illegible] ventriculorum cerebri con[illegible] [illegible] docuit [illegible] præeunte *Sylvio*.

[illegible] medullæ [illegible] satis alte in cerebri sub[illegible] [illegible], maxime [illegible] spectat, parti continuatam cerebri mox & [illegible] partem nominat cerebri compre[illegible] [illegible] & [illegible] [illegible] sua extrema introducuntur

tumque

Corpus callosum.

Ventriculorum cerebri conformatio.

[illegible] que [illegible] [illegible] [illegible] [illegible] [illegible] plectitur, sicque laterales format ventriculo[illegible]

In anteriore autem & interiore parte ascendens [illegible] que radice albicans substantia, utrumque [illegible] [illegible] conficeas, [illegible] medium interstitium, quod tertius ventriculus est [illegible] ipsum [illegible] lateral[illegible] in ventric[illegible] [illegible] tegens, opticen continuatque posteriori, [illegible] [illegible] que ventricul[illegible] [illegible] parti cont[illegible].

Poros [illegible] in ventricul[illegible] *Regius*, [illegible] [illegible] stat ae cerebri spectantes in quibus [illegible] [illegible] [illegible], quibus comp[illegible] [illegible] occlusis Apop[illegible] [illegible] proveniri *R. gerjo* [illegible]. Sed [illegible] una cum [illegible] oculos Anatomicorum fugiunt.

Septum lucidū. Distinguuntur septo laxo & rugoso, quod si extendatur & lumini opponatur [illegible] fit ob tenuitatem, quod [illegible] voluit esse ex tenuissima [illegible] cerebri po[illegible] [illegible] meninge duplicata. Sed prius verius est, quod deprehendes, si more *Sylviano* alterius lateris cerebro [illegible] ablatis oppositi lateris ventriculum indagaveris, ac cerebri partem, calloso corpori continuatam, ad [illegible] [illegible] orificium elevaveris, tum enim facile perspicietur [illegible] [illegible] [illegible] deprehendetur [illegible] vocant *Galeno* & [illegible] *Lindano*, propter [illegible] ventricu[illegible] [illegible] alter [illegible] [illegible].

Hiatus ejus. Corpus callosum, ubi septum pellucidum incipit [illegible] *hiatum* habet *Fr. Sylvius* [illegible] [illegible] [illegible] [illegible] tenui [illegible] in *duas partes* [illegible] [illegible].

Usus septi. *Usum* septo nobilem assignat illustris *Digbaeus* [illegible] resideat Phantasia, quae [illegible] cerebri tenet. 2. [illegible] [illegible] puncto sive atomus per sensus, q[illegible] [illegible] [illegible] [illegible] & utrinque [illegible] [illegible] [illegible] [illegible] [illegible] sub utraq. sui parte objecto [illegible] [illegible]. 3. Aptum est suo temperamento ad omnia [illegible] [illegible] different [illegible] recipiendas. 4. M[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] habet, [illegible] [illegible] eandem habeant qualitates. 6. In cavitate cerebri [illegible] [illegible] [illegible] de [illegible] [illegible]. 7. [illegible] [illegible] [illegible] [illegible] [illegible] corpus perc[illegible].

Subtilis enim [illegible] clara est [illegible] quia 1. [illegible] [illegible] [illegible]

[illegible]

[illegible] hinc [illegible], 2. nervorum [illegible] origo, à medulla non [illegible] nervos hic [illegible] ventriculus [illegible] [illegible] [illegible] *Thenero*, [illegible] comprimitur interdum [illegible] *Horstius*. 4. [illegible] ventriculis [illegible] parte confusis, ut testatur *Hildanus*.

Pars [illegible] ubi [illegible] ventriculi, dicitur Fornix seu *testudo*, figura triangulari, tribus cruribus [illegible] posterioribus. In communi [illegible] ventriculo superstratum putatur hoc corpus, & corpori calloso subjectum. *Fornix.*

Sub *Fornice* observante *Sylvio* proxime [illegible] utrinque lateralis [illegible] plexus, ad [illegible] plexu [illegible] parte [illegible] ut [illegible] ventriculo [illegible] non superstratur testudo.

Usus Fornicis *Willisio* 1. ligamenti instar cerebri interiora continere ne concidant. 2. [illegible] animales [illegible] ab una cerebri extremitate ad alteram [illegible] per [illegible] rostrum in [illegible] circulentur. 3. [illegible] humores in ventriculis [illegible] moderari. *Usus.*

Tertius [illegible] ventriculus, vel rima longa, est [illegible] in centro quasi medullæ cerebri [illegible] *Ventriculus tertius.*

[illegible] prodeuntium [illegible] meatus in se [illegible] ad [illegible] exerementa excludit [illegible] posteriorem, [illegible] quod foramen quidam *anum* [illegible] ad ventriculum nobilem, ut præparata materia [illegible] in locum generationis & [illegible] iterare queat. *Anus.*

Et hoc foramen nihil aliud quam spatium ex contractu [illegible] quatuor spinalis medullæ.

Nates vero & *testes* sunt quatuor orbiculares prominentiæ [illegible] cerebro [illegible] portiones [illegible] medullæ oblongatæ a cerebello ortarum [illegible] nates, [illegible] vero ex [illegible] cerebello, vocantur [illegible]. Et hæ partes sunt anteriores [illegible] superiores. *Nates & testes.*

Hæ differentiæ [illegible] notat *Wepferus* inter testes & nates in brutis [illegible] habent locum, quam in homine, in quo [illegible] sunt, & sæpe testes majores.

Seq

FIGURÆ EXPLICATIO.

Figura hæc sinistrum cerebri recitatæ ventricu-lum integrum exhibet.

a. *Auris dextra.*
b. *Auris sinistra.*
c c c c. *Os frontis.*
d d. *Capitis cutis pars utrinque dependens.*
e e e e e e e. *Crassa utriusque lateris meninx.*
f f f f f f. *Cerebrum secundum ventriculi sinistr. ductum à parte spinalis medullæ radici superimposita divisum & reclinatum.*
g g g. *Cerebri pars spinalis medullæ radici insistens.*
h h. *Magna cerebri fissura radicem supergrediens.*
i i i i i i. *Ventriculi sinistri interior facies, forma instar Lunæ falcata.*
k. *Ventriculi cavitas digitali similis.*
l. *Orificium in tertium ventriculum.*
m m m. *Limbus spinalis medullæ radici adhærens.*
n n. *Limbus ab eadem radice remotus.*
o o o. *Plexus choroeides.*
p p p. *Spinalis medullæ crassa radix.*
q q q. *Vasa interiorem ventriculi superficiem perreptantia, & magnam partem ab arteriolis radicem ascendentibus orta.*
r. *Septum lucidum.*

Sed ejusmodi nomina imponere parum videtur momenti. [illegible] & quamdo glandulam pinealem *penem* vocant, & [illegible] *Penis.* *Vulva.* *Regio* *pensilis* [illegible] veam al[illegible] inter [illegible] oblongam, *vulvam.*

Ex quatuor his protuberantiis, cerebellis & [illegible] *cularem* velut *regionem* constitui [illegible] *Vis* [illegible] cere[illegible] bello & medulla oblongata [illegible] [illegible] quod [illegible] oblongata [illegible] [illegible] illam [illegible] [illegible] propter [illegible] les [illegible] [illegible] cerebello [illegible] & cerebro [illegible] cent, atque vice versa, affectuum impetus à cerebro [illegible] mediante cerebello versus præcordia transire [illegible] quam [illegible] differre possint protuberantes tamen [illegible] medullæ oblongatæ, cui quoque continuæ sunt.

Inter

Inter ventriculos priores dictos ac testudinis sedem, [illegible] repentur choroidis, vel RETICULARIS di[illegible] venis & arteriis tenuissimis contextus, [illegible] ex vasis sin[illegible] plexus glandulosa [illegible] portio. Glandulas hic vel loco lym[illegible] lymphaticos intra se annulos continent, quos vi[illegible] [illegible] tamen [illegible] observabiles glandulas [illegible] Conjectiores certe tum sunt propter [illegible] arteriae ramulum pariens.

Plexus choroidis

partem cerebri interiorem, ubi lateralis ventriculi [illegible] n [illegible], [illegible], nec per choroides plexus vero [illegible] [illegible], [illegible] *desinit* [illegible] [illegible] glan [illegible] per [illegible] [illegible] ventriculi [illegible] [illegible]

Usus. *Usus* est [illegible] [illegible] [illegible]. Alios [illegible]

1. Ventriculorum coalitum impedire. Atqui hoc [illegible] pervacuum, & naturæ prudentiæ [illegible]. Membrana tenuis intercurrens coalitum impedit, & forsan etiam [illegible]tus.

2. Uberiori sanguinis affluxu cerebri medullam [illegible] facere, quia cerebrum amplum & [illegible] [illegible].

3. Motum aliquem cerebro impertiri, quod per membranaceas arterias moveri ante dictum.

4. Calidis suis exhalationibus, cerebri exhalationem [illegible] [illegible], Quod in frigidioribus frustraneum, quos à catarrhis [illegible] [illegible].

5. Sanguinis cerebro destinati partem aquosiorem vasis [illegible] excipere, ut reliqua laticis cruenti portio in spiritus [illegible] [illegible] magis [illegible]. Qui usus glandulis [illegible] [illegible].

Ad ortum foraminis, quod a medio ventriculo [illegible] [illegible] intrat, quædam GLANDULA est apposita, PINEALIS dicta, a figura [illegible]. Græcis *κωνάριον*, vel [illegible] [illegible], [illegible] *penem* cerebri vocant, est [illegible] [illegible], colore [illegible], non [illegible] [illegible] & [illegible] [illegible] tenui obducitur arteriis venisque intertexta. Magnitudine recens mactatis animalibus [illegible] inveteratis cadaveribus [illegible] [illegible] vix apparet, vel valde exigua est [illegible] [illegible] quorum [illegible] cerebri aperiri non possunt. Unde an [illegible] [illegible] sicuti camphora aeri expositam, [illegible] sicut sal ab humido. [illegible] flaccescit frigori exposita.

Glandula pinealis. Glandulam hanc inter testes consistentem *nervus* [illegible] [illegible] utrinque firmat, observante *Sylvio*, qui [illegible] *Wharthono*, cum nervis oculorum motoriis [illegible] trochleatum pergens, *Willisio* [illegible], unde [illegible] [illegible] affectus, denique *Patheticos* nervos vocat.

[illegible] *Sylvius* etiam in hac pineali [illegible] non semel [illegible] arenulas, quin & [illegible], calculum [illegible] [illegible] partem quartam æquantem & [illegible] observavit [illegible] [illegible] calculos *Schmyttus* lapidem [illegible] [illegible] [illegible] glandulæ occupabat. *Barbettus* [illegible]

Usus est [illegible] aliarum glandularum, & [illegible] esse [illegible] distributioni vasorum per cerebrum [illegible] [illegible]. Alii [illegible] pro [illegible] firmandoque plexu choroideo. [illegible] [illegible] valvulæ apponatur foramini, in quartum ventriculum [illegible]

[illegible] & *fystole* [illegible] *Alius* ad conservationem luminis [illegible] *Alii* [illegible] pro- [illegible] commode [illegible] nunquam enim vena major hic [illegible] quam arteria [illegible] plus materiæ efferri possit [illegible] nunquam [illegible] humores [illegible] potest capacior esse vena propter [illegible] humo- [illegible] *Alius* [illegible] sanguine [illegible] & in [illegible] venæ [illegible]

Cartesius [illegible] *Mersennius* [illegible] [illegible] glandulam hanc in medio ventricu[illegible] perpetuo [illegible] motus [illegible] Animam [illegible] hac sola [illegible] externa & omnes Ideas quæ [illegible] apprehendere, tanquam in centro & [illegible] ejus ope spiritus ad varios nervos [illegible] in speculo [illegible] quo [illegible] campo vel Musæo [illegible].

[illegible] *figuram conicam* [illegible] accommodat *Mersennius* [illegible] quam species [illegible] Moveri autem [illegible] per mo- [illegible] animæ, sed semper reperiri [illegible] per [illegible] æqualitatem vel [illegible] & [illegible] compositam, comparatas inter se [illegible]

Hinc infantes non statim loqui [illegible], quia nondum introitus dantur ideis per [illegible] cerebrum [illegible] motum [illegible] & [illegible] facere, ut in ebriis, Phreneticis, &c.

[illegible] *Cartesio* igitur, imaginationis & sensus commu- [illegible] est: memoriæ vero in interioribus cerebri [illegible] glandulam. Ad hunc glandulæ actionem mo- [illegible] cerebri undiquaque [illegible] [illegible] efficiatque ut [illegible] egredientes ut potius in [illegible] prosiliant. Duo vero [illegible] differentiam, quæ [illegible]

 de

do in aliam partem inclinant, [illegible] quibus [illegible] atque ut fumus e camino [illegible] [illegible] lam [illegible] post se attrahant.

Sed [illegible]

1 [illegible]

[illegible] nubilo cœlo non ita alacres sunt sensus.

2 [illegible] Ergo [illegible]

3 [illegible]

4 [illegible] unde singuli suo loco [illegible] colore. Concedit & hæc [illegible]

5 [illegible] toramnuli ingrediuntur. At spiritus [illegible] & [illegible] eadem [illegible] ingressi confunduntur.

[illegible] nervos dat [illegible]

[illegible]

[illegible] nervis sensuum externorum. Insensit les [illegible]
[illegible] us adducit Bergeri, quae etiam ex spinali p[illegible]
[illegible] hoc manifesto sensu.
[illegible] dula major in animalibus ratione carentibus.
[illegible]

[illegible] Motus proprius nunquam in ea visus, nisi violen-
[illegible]
[illegible] les.
[illegible] ventriculos in cerebro [illegible]
mentorum conceptacula, quod apparet
[illegible]
glandulam [illegible].
[illegible] colorum semper acidos humores [illegible]
[illegible] & reperta [illegible]
[illegible]
[illegible] & tymphaniis.
[illegible] non est officium [illegible]
[illegible]
[illegible] corpus [illegible]
[illegible] & [illegible]
[illegible]

FIGURÆ EXPLICATIO.

Effigies Cerebri humani, quod cujusdam Adolescentis ab ipsa nativitate fatui, & ex eorum numero qui vulgo [illegible] habebatur, fuerat; Cujus Cerebri moles, cum tenuior ac solito minor fuit, limbus ejus [illegible] elevari & reflecti potuit, ut interiora quævis per [illegible] conspicerentur. Ex *VVillisio*.

A A. *Cerebri Limbus elevatus, & plurimum re[illegible], qui in naturali, in medullam oblongatam prope Cerebellum [illegible], Nates & Testes abscondebat.*

B. *Corporis callosi [illegible], sive margo inferior.*

C C. *Fornix cum duobus brachiis ejus circa medullam oblongatam amplectens.*

D D. *Interna Cerebri cavitas, a limbi ejus complicatura circa medullam oblongatam resultans.*

E E. *Crura medullæ oblongatæ Anteriora, seu corpora striata.*

F F. *Thalami nervorum Opticorum.*

G. *Glandula pinealis, inter quam & fornicis radicem foramen, cujus ductus, tum ad infundibulum, tum ad ventriculum protuberantiis orbicularibus subjectum, tendit.*

H H. *Protuberantia Nates dicta.*

I I. *Protuberantia Testes dicta.*

K K. *Processus medullares a Testibus ad Cerebelli medium [illegible] protensi.*

L L. *Cerebelli per medium dissecti hemisphæria seposita, ut medullæ oblongata tandem melius conspiceretur, ubi substantia medullaris [illegible] ad formam arboris.*

M. *Scrobs infra Crura [illegible] medullaria, quæ [illegible], ventriculum quartum [illegible] scriptoria constituunt.*

N N. *Processus medullares, qui transeunt e medulla oblongata in protuberantiam orbicularem, [illegible].*

O. *Medulla oblongata, in spinalem [illegible].*

fig. IIII.

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] volvatur usque in figura sphærica continet [illegible] [illegible]

[illegible] permagnam esse, crassioribusque & [illegible] præditam, ut non tam facile, sicut in vitulo [illegible] tas inverti, ac in latam aream reduci queat.

Quamcunque secundi [illegible] sequi, cuilibet arbitrio rel[illegible]. Nos plerumque [illegible] tam ac sectionem in demonstrat[illegible] sumus, ac inverso o[illegible] tyrones & [illegible] tur. Et ut commotius in ipso cranio [illegible] contineretur, immobileque caput esset, *instrumentum* [illegible] [illegible] *Ly[illegible]*, discipulus tum noster [illegible].

CAP. VII.

DE FRONTE.

[illegible] PArs capillata exp[illegible] est, sequitur glabra vel Fa[illegible] [illegible] ad venustatem, dicitur & *vultus*, ob voluntatis [illegible] [illegible]

[illegible] Frons unde [illegible] Hæc pars [illegible] Frons [illegible] à feren[illegible] quia [illegible] & [illegible] mente [illegible] est [illegible] partes [illegible], externæ & [illegible] [illegible] musculi, oculorum [illegible] &c.

Ex fronte morum & ingenij signa [illegible] Physiognomos, quæ *Aristoteles* [illegible] [illegible]. Sed ex osse hæc diversitas dependet.

In cute notantur Metoscop[illegible] *lineæ fatales* [illegible] [illegible] Francus [illegible] [illegible] *hominis* [illegible] [illegible] Vesalius [illegible] ostentatur, quam lineas. 3. R[illegible] dentes [illegible] relinquunt, non lineam. 4. Vestigia linearum [illegible] in fronte fœtus.

[illegible] *Frons* [illegible] movetur, ideo musculos habet [illegible] *Frontem* [illegible] animi significativos vocat. Frons [illegible] [illegible] & ad [illegible] speciosa [illegible]

C[illegible]

[illegible] prope suturam coronalem, & ad [illegible] annectuntur, in medio vero [illegible] contorman- [illegible] ad super- [illegible] tamen in nasum appendicem illorum pro- [illegible] ad nasi cartilagines.

[illegible] Non ergo à Chirurgis transver- sim [illegible] tali sunt, ne pereat superciliorum elevatio, sed [illegible] secundum longitudinem. Fibras obliquas post *Aquapendentem* [illegible] *Hofmannus*, in dextra quidem parte [illegible] in sinistra vero contra. Sed relu- [illegible] inspectione, & ratione. Nam [illegible] tractu vel elevatur vel deprimitur, opo [illegible] a quibus rectus motus. Ad hæc sectio [illegible] Chirurgis plerumque damnatur. Vide *Paræum*, *Severinum*, aliosque. Conveniunt in fibris rectis *A*[illegible] magni [illegible], *Laurentius*, *Bauhinus*, *Platerus*, *Veslingius*, &c.

[illegible] vero frontis cutis arctè his musculis connascitur, [illegible] & frons & supercilia moventur.

A[illegible] vero [illegible] etiam duo adsunt musculi, [illegible] capitis moventes, breves, tenues & lati, fibris rectis, [illegible] latum desinentes, & aurium musculos [illegible] a latere tangentes: hisce donati aliqui homi- nes, [illegible] capitis posteriora versus trahere possunt.

[illegible] *proportionem* si metiamur Anthropometro *Els- holtij*, ex ligno recto, transverso & basi constante, inve- niemus *longitudinem* latitudine capitis paulo minorem, *altitudinem* [illegible] fere unciarum: si filo a cincinnis dex- [illegible] ad sinistros [illegible] octo uncias.

Cap. VIII.

DE OCULIS.

OCuli a [illegible] claudendo vel occultando dicti, eo quod sub [illegible] occultentur, sunt instrumenta visus, cōstāta [illegible] membranis, [illegible] culis, vasis, aliisq; partibus. *Oculi unde dicti.*

[illegible] loco eminenti, ceu speculatores, in anti- [illegible] munimenti tutioris ergo. *Situs*

Numero duo, ob perfectionem visus, & ut uno deficiēte, alter vicem suppleat. Objectum tamen unum semel tan- tum videt uterque non duplex, sive quod facultas judicans & cognoscens una sit, ut censet *Aquapendens*; sive quod vi- suales *Numerus.*

FIGURARUM EXPLICATIO

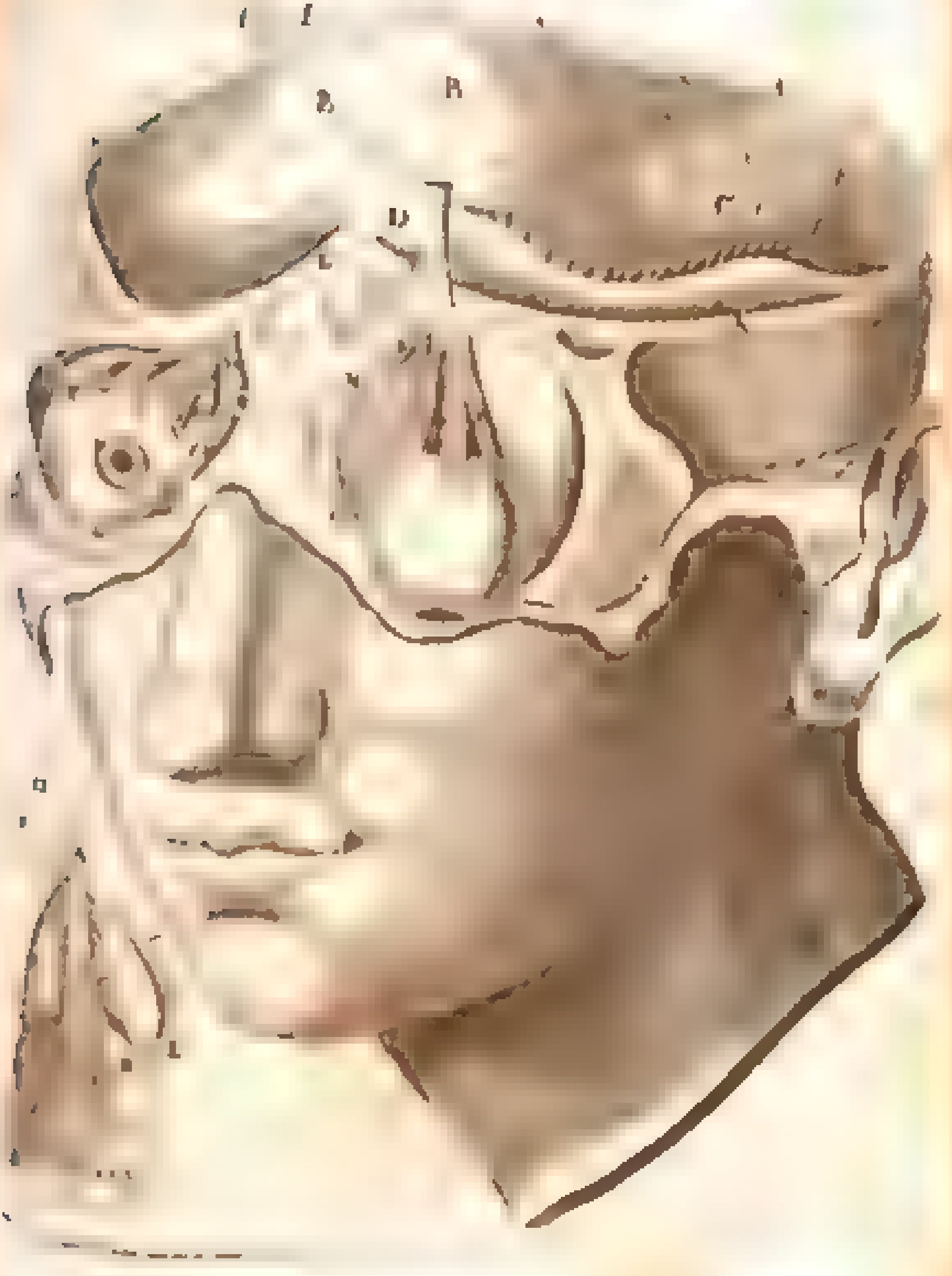
M[illegible] oculi [illegible] [illegible] [illegible] [illegible] separatim ostend[illegible], ex Casserio

FIGURA I

A A A A. C[illegible] resecti pars cavernosa.
B. [illegible] [illegible] [illegible] infima portio cerebri dissecta
C C. Cerebellum.
D [illegible] [illegible] [illegible] [illegible]
E E. Eorundem ad singul[illegible] [illegible] [illegible] [illegible]
F [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
G G. [illegible] [illegible] [illegible] [illegible] Attollente[illegible] [illegible]
H [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Depriment[illegible]
[illegible] [illegible]
I I. In utroque oculo rectus internos seu Adducentes monstrat
K K. In utroque ocu[illegible] rectos externos seu Abducentes [illegible]
[illegible]
L. In dextro oculo conspicitur Quintus musculus seu [illegible]
[illegible] [illegible].
M M. [illegible] [illegible] [illegible] [illegible] seu obliqu[illegible] [illegible] [illegible]
tendo per trochleam N. [illegible] [illegible]
O. In oculo dextro [illegible] [illegible] indicat.
P. Cornea unica in cujus medio est pupilla.

FIGURA II.

A. Nervus opticus.
B [illegible] oculi [illegible].
C [illegible] musculus tendinem suum E. per trochleam D.
[illegible]
F. G. [illegible] [illegible] [illegible] [illegible] [illegible].
H. [illegible] [illegible] palpebra superioris [illegible] [illegible] [illegible]
[illegible]
I I I [illegible] [illegible]
K K. Cilia seu palpebrarum extrema pil[illegible] [illegible]



fuales duarum pyramidum axes in eadem plane superfi- [illegible] sive ob ex[illegible] [illegible] ut philosophatur *Aquapendens*. Hinc hominem [illegible] valde [illegible], & ob actionis nobilitatem atque perfectionem specierumque visibilium receptionem.

Figura. *Rotundi*, sed aliquantulum oblongi, instar bulborum [illegible].

Anguli duo constituuntur, ad orbitam oculorum, qui *canthi* dicuntur, *internus* major ad nasum, & *externus* minor ad tempora.

Partes. *Partes* in oculo & circa oculum variæ sunt: aliæ extra oculum, ornamenti causa vel commoditatis, ut *palpebræ* cum ciliis & *superciliis*, item *caruncula* in angulis [illegible]. [illegible] partes ipsum oculum constituentes, suntque *musculi*, *vasa*, *membranæ*, & *humores*.

Palpebræ. PALPEBRÆ sunt partes oculum tegentes & claudentes, extergentesque [illegible] & depurantes [illegible] deinde [illegible] [illegible] picturam [illegible] auctoribus *Averrhoe*, *Varolio*, *Plempio*.

Constant ex cute, [illegible] membrana carnosa, musculis, tunica, cartilagine & [illegible], [illegible] est [illegible] *Substantia*.

An moveatur palpebra inferior? *Palpebra* alia est *inferior* quæ si credimus *Galeno* aliisque ex se immobilis est præterquam in nonnullis avibus. Moveri tamen revera statuunt *Bauhinus*, *Aquapendens*, probatque Phocæ exemplo *Fallopius*. & quivis ad speculum [illegible] observare potest occurrere inferiorem superiori. Sed [illegible] [illegible] est motus, vel cum *Vesalio* & *Sylvio* a [illegible] musculo circulari superiorem partem attollere palpebram [illegible] superiorem [illegible] detrahi [illegible] partes, quod tamen verum non est, quia rectus attolleret, vel cum *Piccolomineo* statuendum, generalem motum sequi, vel denique musculus orbicularis superiorem movet, inferiorem cum [illegible] tanquam copula connectat. Alia *superior*, quæ movetur, & quidem celerrime, unde motus celerrimus comparatur cum [illegible] oculi.

Palpebrarum Musculi. Moventur autem sursum, id est, aperiuntur & attolluntur, per rectum *musculum* [illegible] orbitam oculi ingreditur exortus & [illegible] palpebræ extremitati [illegible] oculum [illegible] [illegible]. Moventur deorsum, id est, clauduntur [illegible], per musculum *orbicularem* quendam vel circularem [illegible] per transversum digitum latum, a nasi radice ori- [illegible] qui

[illegible] palpebra per canthum exteriorem [illegible] & supra palpebram superiorem [illegible] interioris locum defi[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] palpebram [illegible] superiorem [illegible] Sed nulla [illegible] apparet divisio etiam oculatissimis, quum [illegible] continuae, mediae, nervo [illegible] [illegible] in alias quosdam musculos, [illegible] [illegible] duos musculos esse [illegible] quod sit duplex.

Membrana carnea a [illegible] [illegible] simplices [illegible] [illegible] palpebrae [illegible] carnea [illegible] [illegible] non coal[illegible] *Membrana.*

Tunica [illegible] ne laedantur oculi [illegible]

[illegible] palpebrarum duriora sunt & cartilaginosa, sed [illegible] cartilaginis parvae, semicirculares [illegible] [illegible] *Cilia* quos [illegible] recti, quia in duro sint, semper fere eau- *quae?* [illegible] ne leviora ocu[illegible] & [illegible] inservientes, [illegible] [illegible] revulsis vel quavis causa proceden[illegible] [illegible] imbecilles interdum [illegible], maxime si [illegible] fuerint coloris, quod experimento in [illegible]

[illegible] frontem [illegible] *Cilia superciliorum.* [illegible] quae a capite [illegible], ne in oculos [illegible]

[illegible] *lacrymalis* [illegible] pro [illegible] *Punctum lacrymale.* [illegible] insculpto, quod *punctum lacrymale* [illegible] [illegible] *Galenus* & [illegible] [illegible] lachrymalis [illegible] [illegible] palpebra [illegible] [illegible]

[illegible] est [illegible] quod [illegible] *Rolfincius* [illegible] *Dia[illegible]*

FIGURARUM EXPLICATIO

FIGURA I.

[illegible] oculi [illegible] ex [illegible]

A Glandula oculi superior [illegible] lymphatica [illegible]
B Angulus oculi major.
C Angulus oculi minor.
D [illegible] in quos anterior glandulae limbus est divisus, quorum interstitia lymphatica C C C exeunt.

FIGURA II.

A Interior palpebrae superficies [illegible]
b b b [illegible] palpebrarum [illegible]
d d d [illegible]

FIGURA III.

A. [illegible]
B. [illegible]
b b b. [illegible]
c c. [illegible]
d [illegible]

FIGURA [illegible]

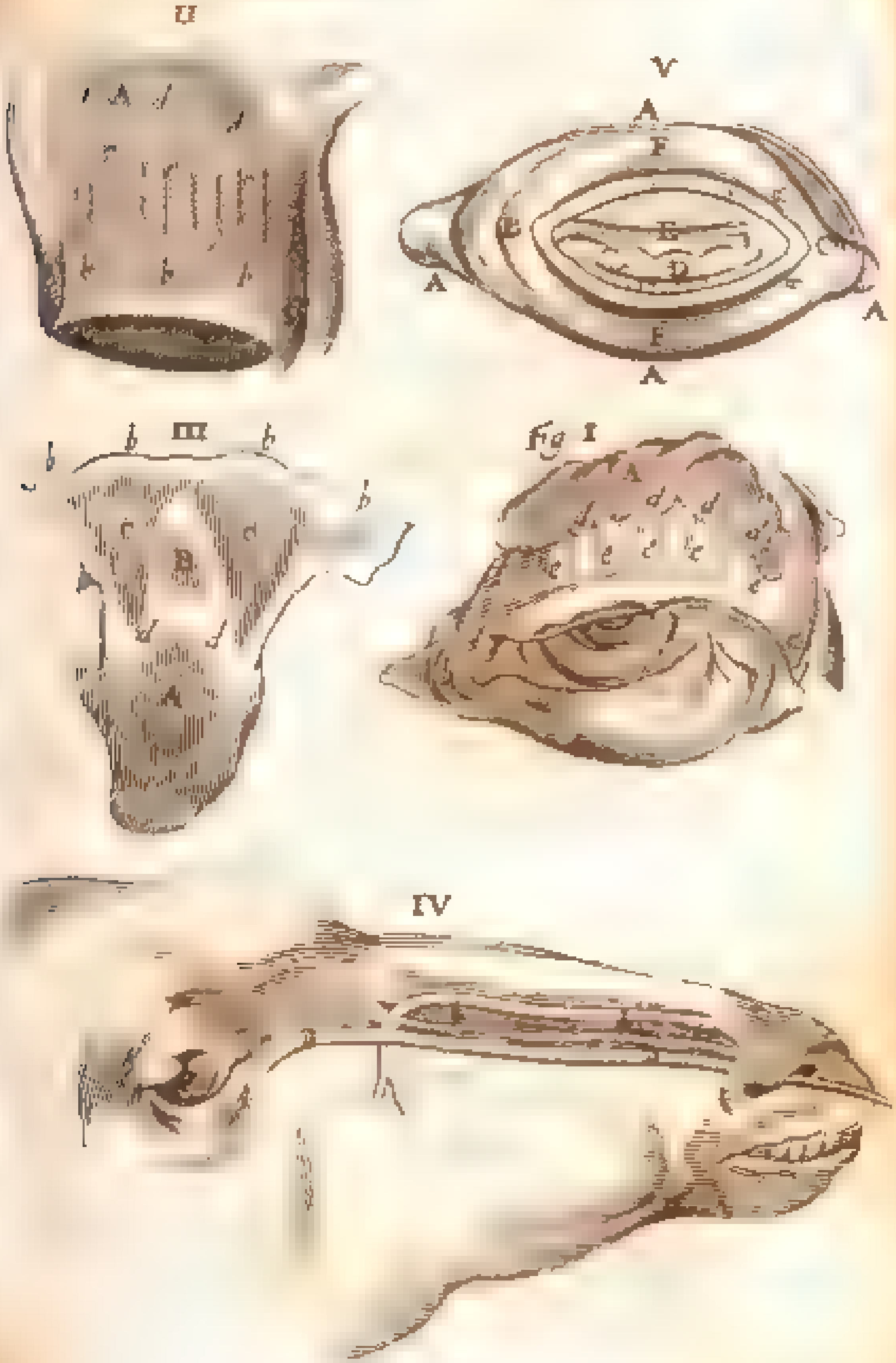
a a [illegible]
b b. [illegible]

FIGURA V.

Vasa Palpebrarum nova ex Henr. Meibom

A [illegible]
B [illegible]
C [illegible]
D [illegible]
[illegible]
E [illegible]
[illegible]
F [illegible]
G [illegible]

TABULA X



Stenonius, quæ ad cartilaginis latera [illegible] lum & cartilaginem se aperiunt ostiis, [illegible] solo hiatu dignoscendis.

Caruncula innominata. [illegible] *Caruncula innominata* [illegible] oculi glandulam & [illegible] quoque cerebri & sacco [illegible] do destinatur *Wharton*. Sed [illegible] stant. Pars anterior per *lobos* dividitur, per quo[illegible] *lymphatica* [illegible] *Stenonius* [illegible] *vasis lachrymalia* [illegible] ex [illegible]

Canaliculi lachrymales. *Puncta lachrymalia* [illegible] *Stenonius* [illegible]

[illegible]

[illegible] *As fluxiles* [illegible] aeris lymphæ descendunt.

Foramina canthi externi. In externo angulo duo quoque foramina [illegible] *Aquapendentem* [illegible] *Meibomius* [illegible]

Ductus novi palpebrarum. [illegible] scribit *Henr. Meibomius* à se observata, ex [illegible] *glandulis* [illegible] limbi. In superiori tarso longiores sunt, [illegible] & [illegible] *Bartholinus* [illegible] sunt, quos potius [illegible] dicendos vult *Segerus*. Qua [illegible] se exonerant. *Usus* conveniens utrique est, [illegible]

[illegible] adiposa in oculo. [illegible] In spaciis musculorum & vasorum [illegible]

[illegible]

[illegible] *Columbo* [illegible] non [illegible] & [illegible] Quibus tamen [illegible]

Primus [illegible] & crassior dicitur *attollens* [illegible]

[illegible] in parte inferiore [illegible] oculum deorsum [illegible]

[illegible] *adducens* vocatur & bi- [illegible] moven.

[illegible] ad parvum angulum, *abduc*-*torius* dicitur.

Omnes hi quatuor musculi idem principium, eandem [illegible] oculi [illegible] bus [illegible] [illegible] trahatur, [illegible] & per externum oculi [illegible] oculi [illegible] & [illegible] oblique deorsum [illegible]

[illegible] longissi [illegible] ad [illegible] rectio [illegible] [illegible] curandus [illegible] habeat rationem chirurgi.

[illegible]

[illegible]

Septem- *Septimus* [illegible] in brutis adest, [illegible] tres, vel [illegible] potest.

[illegible] in brutis. H[illegible] intercedente [illegible] nervum opt[illegible] vis est, & carneus in tunicam [illegible]

[illegible] fu[illegible] utrumque op[illegible] mo[illegible]

[illegible]

[illegible] ne prodi[illegible] *Scaliger.* Dep[illegible]

[illegible]

branam [illegible] [illegible] teste *[illegible]*.

Vasa. VASA [illegible] oculum [illegible], venæ [illegible] arteriæ à carotid[illegible], per musculos, adipem & membra[illegible] [illegible], & *lymphatici* rami.

Nervus [illegible]. Ne[illegible] [illegible] [illegible] parte postica in [illegible] [illegible] com-

[illegible]

brutis obliqu[illegible] & non in centrum, sed ad [illegible] *[illegible]*, quod in membranas abit, & in [illegible] [illegible] ramulum [illegible] Sed de [illegible] nervis [illegible] *Nerv*[illegible].

Membranas oculo tres esse. MEMBRANÆ [illegible] externam & conjunctivam [illegible] communes, non nisi *tres* [illegible] modum in nervo triplex est [illegible] ita tres [illegible] substantiæ tres oculi tunicas [illegible] ma enim tunica [illegible] à dura matre, *Secunda* [illegible]

Tunica Adnata. [illegible] [illegible] est proxima. *Hippocrates* [illegible] vocat.

Usus ejus [illegible] [illegible]. [illegible] oculum orbitæ & [illegible] ossibus [illegible] [illegible] est.

V[illegible] non apparet [illegible]

[illegible]

[illegible] vel *dura* [illegible] | 1. *Tunica cornea.*

[illegible] & [illegible]

[illegible] *corneam* [illegible] | *Cornea.*

[illegible]

[illegible] & [illegible]

[illegible] est similiter a [illegible] *choroide*, crystallino tamen foratam in medio, ut [illegible]

[illegible] quia est instar chorij & per eam vasa [illegible] | 2. *Tunica oculi*

[illegible] In animalibus varij coloris, modo cœrulea [illegible] pellucida modo cœrulea est hominibus [illegible] cæsia, qui color [illegible] dicitur *Uvea*, ob colorẽ Uvæ, [illegible] | *Uvea.*

[illegible] & [illegible] tate ob ictũ & luminis contrahitur & dilatatur, ut [illegible]

[illegible] perforata in medio ad specierum ingressum, [illegible]

Pupilla [illegible] | *Pupilla.*

[illegible] in [illegible] bovis [illegible]

[illegible] habeat fibras pecu[illegible] *Pupilla* [illegible] *Uvea* [illegible] varios colores [illegible]

[illegible] *Galeno, Casserio, Riolano* [illegible] duplex ad oculi album [illegible] & latior, constanti colo[illegible] coloribus prædita [illegible] nunc cœrulea est, nunc cresia, nunc [illegible] | *Iris.*

[illegible] membrana [illegible] ad crystallinum, [illegible] | *Ligamentum ciliare.*

 [illegible]

FIGURARUM EXPLICATIO.

Ocul[illegible]

FIG. I.

A. *Cornea tunica cum pupilla transparente.*

B. *Musculus rectus attollens.*

C. *Rectus inferior, sive deprimens*

D. *Rectus internus, seu adducens*

E. *Rectus externus seu abducens*

F. *Obliquus internus, seu trochlearis*

G. *Obliquus externus, seu inferior.*

FIG. II.

In Ovis oculo musculos ostēdit.

A. *Nervus opticus.*

B B. *Musculus septimus opticum nervum circumdans, atque bruti[s] propr[ius]*

C C C C. *Musculi recti.*

D. *Musculus trochlearis*

E. *Musculus obliquus inferior.*

FIG. III.

a a. *Tunica adnata in suo situ.*

b b. *Cornea tunica.*

c c. *Uvea tunica.*

d d. *Sclerotis tunica.*

e e. *Dura nervi optici membrana.*

f f. *Choroides tunica.*

g g. *Tenuis nervi optici membrana*

h h. *Retina tunica*

i i. *Medullaris nervi optici substantia*

l. *Interna medulla vitreo affixa.*

m m. *[illegible] tunica*

n n. *[illegible]*

o o. *[illegible] pars.*

A. *H[illegible]*

B. *Crystallinus humor.*

C. *Vitreus humor*

FIG. IV.

Tunica adnata separata, & extra [illegible] venulis, & arteriolis plurimis donata.

FIG. V.

A. *Nervus opticus dura matre ex[illegible]*

B B. *Dura mater nervum opticum ambiens.*

C C. *Sclerotica aperta per cuius fissuram uvea [illegible] videtur*

FIG. VI.

A. *Nervus opticus [illegible] matre [illegible].*

B B. *Choroides tunica [illegible] denudata*

C C C C. *Vena per Scleroticam [illegible]*

D D. *Sclerotica inversa.*

E E. *Ruptura sclerotica.*

FIG. VII.

A. *Nervus opticus.*

B B. *Uvea revoluta & à retina ex parte separata*

C C. *Retina ab uvea denudata pars, itemas obscuro colore sculpta.*

FIG. VIII.

A. *Retina tunica plane denudata.*

B B. *Album oculi seu conjunctiva tunica.*

C. *Cornea.*

D. *Pupilla.*

FIG. IX.

Vitream exhibet tunicam cum [illegible] clavibus

FIG. X.

Aqueum ostendit humorem concretum, in cuius medio sinus est, qui excipit crystallini faciem anteriorem.

FIG. XI.

Humorem vitreum refert, in cuius medio crystallinus ponitur.

FIG. XII.

Tunicam Crystallinam ob oculos ponit.

FIG. XIII.

Humorem ipsum crystallinum ejusque figuram monstrat.

IV
III
A
B
C
XII
XIII
D
VII
VIII
B
D

[illegible] quæ sunt [illegible] referentia lineas nigras [illegible] crystallinum humorem cingunt, qui [illegible] & [illegible] tendines, [illegible] tamen [illegible] est movere crystallinum humorem [illegible] pro varia visus necessitate immutetur, [illegible]

3. Tunica uvea. [illegible] Galeno & Casserio [illegible] & quasi [illegible] reticul [illegible]. Tunica est tenuissima, [illegible] opaca magis [illegible] obscuriori rubore, quia hic species receptæ [illegible] per [illegible] pupillam [illegible]. Nam [illegible] partem [illegible] videtur cerebri portio quædam exempta.

Venas [illegible] crystallinum [illegible]

Hæc vasa denegat Platerus [illegible] Casserio, Fr. Spigelio, [illegible] experi[illegible] post ea parte [illegible] & Schen[illegible] [illegible] hac [illegible] & [illegible] Barbati, M[illegible]

Aranea. [illegible] arane[illegible] pellucida, unde speculum dicitur.

Vitrea. A[illegible] vitream, [illegible] humorem [illegible] crystal[illegible] pelluc[illegible] convexa [illegible] concava [illegible] crystallina [illegible] Venam [illegible]

[illegible] mediocris substantiæ nervi op- [illegible] Forum ea inequalis [illegible] nonis est [illegible]

[illegible] *aqueus, vitreus & crystal-* [illegible] citur. Hi sec continentur [illegible] tam necessaria, quæ ocul[illegible] [illegible] quæque extincta [illegible] [illegible]

Humores oculorum.

Aqueus [illegible]

Aqueus humor.

[illegible] humore sunt substitiores.

[illegible] ex medulla crystallini [illegible] destituitur: nam & [illegible] morbis absumitur & in vulne- [illegible] deperditus restituitur: reliqui duo hu mo- [illegible] non restituuntur, & in utero nascuntur & crystallinus [illegible]

Aqueus humor non est pars animata quia [illegible]

[illegible] aqueus est [illegible] partes [illegible]

[illegible]

Vitreus.

[illegible] & minor crystallino, quo tamen quan- [illegible] Crystalli nos ponitur, tanquam in pulvinari. [illegible] non [illegible] simpliciter cedere in alimentum crystallini sed [illegible] alimentum præparato & commutato. *Aquapendens* ex quo addit *Riolanus*, ne lux crystal- [illegible] statim ab opacis coloratisque colo [illegible] [illegible] crystallinum reverteretur, vitreus [illegible] splendidus spatium ab- [illegible] interpellatum inter crystallinum & retinam, quod [illegible]

[illegible] explicant *alii*, [illegible] [illegible] [illegible]

Crystallinus. *Crystallinus* [illegible] [illegible] [illegible] [illegible] [illegible] Ex duabus [illegible] [illegible] *[illegible] partem* [illegible]

[illegible] [illegible] [illegible] & [illegible] [illegible] in pupil[illegible] [illegible] *Pecquet* [illegible] videtur. [illegible] vero crystallinus [illegible] potest [illegible] spiritum [illegible] Martis [illegible] certe his humoribus careat. De [illegible] *H[illegible] Heer.* Albumine [illegible] vitreum [illegible] *Laurentius* [illegible] tubul[illegible] [illegible] per [illegible] humores crystallinum a centrali calore [illegible] *Eurchelius* [illegible] caruncula [illegible] [illegible], crystallinum [illegible] conservavit *Rolfinck.* Nos ex lympha [illegible] deduximus Lib. de *Vasis Lymphat.*

Quomodo fiat Visio in oculo. *Visus* est, esse primarium visionis medium, quemadmodum vitreum [illegible] oppositum species [illegible] [illegible] crystallinus species ad [illegible] & [illegible]. Quia autem [illegible] non [illegible] in [illegible] species, nec colores [illegible] quod credidere post *Galenum* plerique Anatomici, [illegible] est, quare non in cornea, humore vitreo, [illegible] quoque & animalis sentiantur.

Cartesio [illegible] humor [illegible] est [illegible] optic[illegible], [illegible] ex [illegible] punctum [illegible] Crystallinus vero ex [illegible] majorem [illegible] [illegible]

[illegible] itaque [illegible] *Cartesio* [illegible] & [illegible] concedunt. *Figuram* enim crystallini [illegible] [illegible], ut refractionibus quæ in aliis oculi [illegible] fiunt, & objectorum distantiæ, respondeat ad amussim.

Ut

[illegible] aliquod [illegible] recto om-[illegible] pacto proveniat, [illegible] in [illegible] nervo [illegible] nerva [illegible] eadem [illegible], nec [illegible] partem [illegible]. [illegible] homo [illegible] species [illegible] agnoscuntur, quia ibi opaco [illegible], quod in pariete cubiculi clausis fenestris [illegible].

[illegible] crystallino species quæ repræsentabant [illegible] inversa, a bis aeæ correcta & refracta, ut omnia re-[illegible]. Sed ex observatione [illegible] *Sylvii*, & [illegible] *Schagen*, sublata a postica parte [illegible] & retina tunica, omnia per oculum inversa videntur & [illegible], forma minima in oculo bubulo, paulo [illegible] in oculo humano. Idem experimento instrumenti [illegible] humoribus pleni probat *Plempius*, foramini fenestræ indito, ubi omnia in pariete inversa exhibentur. Et [illegible] inversæ species debent [illegible] in retina alio [illegible] nos inversa cuncta videremus, non erecta, quod *Keplerus* [illegible], quia in passione patientia agentibus e regione opposita est opposita.

[illegible] nostrum corrigere volunt depravatam figuram [illegible] rerum [illegible] imaginationem [illegible] ex receptis speciebus [illegible]. *Alii* com-[illegible] præterunt, qui [illegible] & [illegible] retina ca-[illegible] inversas [illegible] applicari [illegible]. *Alii* [illegible], rectam fieri [illegible] quia [illegible] rectam [illegible].

Vesslingius [illegible] visus, non tam nervis quam fibrarum [illegible] intertextarum ope fieri [illegible] nervis [illegible] mu-[illegible] simulachrum fibris impressum, velut tubi optici [illegible] ad commune sensorium transmittere.

Cap. IX.

DE AURIBUS.

A[illegible] organa, nempe Aures, vel sunt externæ vel internæ.

Externæ ab aliis Auriculæ dictæ, in homine *figura* sunt semicirculari, extrinsecus convexæ, intrinsecus cavæ.

Dividitur auris externa in partem superiorem & inferiorem.

Appellationes partium auris externæ.

Superior latior est, & [illegible] *Inferior* mollior est [illegible] *fibra* [illegible] *lobus*.

[illegible] *concha* appellata. Cavitas vero [illegible] tum ad intus, ubi sordes flavæ & amaræ gignuntur, [illegible] nuncupatur. Tempora versus adnata est [illegible] [illegible]

[illegible] manes, ut cute cula, cutis, membrana nervea, caro [illegible]

Ejus cutis. *Cutis* [illegible] [illegible]

Temporis [illegible]

Vasa. *Vasa*, *Venas* habent a jugularibus
Arterias à Carotidibus.
Nervos [illegible] & tertio, a secundo pari cervicali.

Musculi. *Musculi* [illegible] in quibus aures in [illegible] conspicui, sunt communes vel proprii, quos [illegible]

Cur aures pauci movēāntur? [illegible] aures tamen musculorum parvitatem [illegible] manibus efficere possunt, quod [illegible] actum motu, quo muscas abigunt.

Ejus primi musculi. *Primus* [illegible] *communis* est [illegible] [illegible] plantatur, ut deorsum in latus trahat.

Ejus secundi. *Secundus* [illegible] & [illegible] musculo temporali [illegible] lam, tenuitatis in auris superiorem partem angustior [illegible] [illegible] aurem moveat.

Tertius

[illegible] ... principio angusto, deinde la- [illegible] ... tortes partes divisus, autem posterius [illegible] ... [illegible] & nonnihil altiora. *Usus tertii.*

[illegible] ... ortus, latus, paulatim [illegible] ... tendinem abeat. Hic musculus potius [illegible] ... [illegible] ... confusi prodeunt. Ex his aliquando ali- [illegible] aliquando etiam reperiuntur, aliquando plures [illegible] ... *Usus quarti.*

[illegible] ... *Cartilago.*

[illegible] ... turore earum intelligatur. *Parotides.*

[illegible] ... vulgus putat, sed ad [illegible] ... *Parotis conglomerata* [illegible] recentioribus, [illegible] ... *abstrugam* [illegible] ... abscondit. *Illa*, præter nervos copiosos, [illegible] ... etiam peculiare *lympha* vasculum obti- [illegible] ... Stenonianus, ab *Hoeskamo* vo- [illegible] ... *salivare externum*, ad differentiam [illegible] ... Whartoniani, quod ex descriptione *Stenonis*, cui [illegible] ... *oritur* intra hanc glandulam [illegible] ... venam constituunt, qui in- [illegible] ... [illegible] ... *Situs parotidum.* *Salivare vas externum.*

[illegible] ... quod è centro buccæ nato is [illegible] ... perreptare, & in musculum quendam [illegible] ... oppositam terminari *Casserius* scribit.

Ex hi[s] ... [illegible] ... *lymphaticum* ex [illegible] ... *palpebræ* [illegible] ...

dum semper os [illegible] per masticationem, motu ex [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. Vasa [illegible] [illegible] produnt lymphatica, *schaemderus* [illegible] [illegible] [illegible] oculis.

Glandula hæc juxta aures *cerebri emunctoria* [illegible] [illegible] [illegible] excrementa [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. Ex [illegible] [illegible] [illegible] *Vasa*, quos *Whartonus* [illegible] [illegible] [illegible] ramos [illegible] partis [illegible] [illegible] exceptas [illegible] in venas [illegible]. Autem & [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] cum *Stenonio*, [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] oris cavitatem [illegible].

Scro-
phu-
la-
rum se-
des.

Sunt & aliæ glandulæ [illegible] in toto [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] variis affectibus ut *scrophu-la* gignuntur. In animalibus [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] in delicijs habet, vocatque [illegible] [illegible] & amygdalas *Jugulares* dicuntur [illegible] *Whartono*, quæ [illegible] [illegible] crescunt. In [illegible] [illegible] [illegible] [illegible] [illegible] observavit. Aliæ aliis *majores*. Nam ab exigua [illegible] [illegible] [illegible] ad fabæ molem variant. Aliæ *anteriores*, aliæ *posteriores*. Aliæ *superiores* quæ pertingunt ad [illegible] [illegible] [illegible] & [illegible] anteriorem ac posteriorem maxillam [illegible] [illegible]: aliæ *inferiores*, quæ juxta latera thyroideatum, inter [illegible] & vasa thoracica thymumque in thoracem descendunt. [illegible] [illegible] & vasorum connexione inter [illegible] mobiles *junguntur*, ut & cum parotidibus & maxillaribus.

Usus est, partes humectare, & vasorum divisionibus præesse. *Whartono* exceptam [illegible] [illegible] [illegible] [illegible] [illegible] in venas & lymphatica sibi proxima reducere.

Usus auris externæ est

I. Ad ornatum. Unde auribus abscissis [illegible] Angli, Belgæ [illegible] [illegible] nationes mulctant, more ab ipsis *Homeri* temporibus [illegible]. Flaccæ tamen & [illegible], & deformes & stolidos notant.

II. Ad tutelam cerebri, ne læderetur ab aëre subito irruente. Cerebrum & [illegible] spectantia, [illegible] [illegible] [illegible] juvari in *Holoriis* [illegible].

Organū
auditus
exter-
num.

III. Esse [illegible] [illegible] [illegible], sed non principale, [illegible] [illegible] [illegible] [illegible] [illegible] organum, uti & olfactus. Et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] tamen [illegible]. [illegible] [illegible] [illegible] [illegible] etiam auribus penitus ad radicem excisis [illegible] [illegible] [illegible], confuse & cum murmure, vocesque [illegible] [illegible], [illegible] [illegible] aquæ aut cicadæ resonantis, ut notum

[illegible] es extollat. Imo alterius auris non [illegible] foramen abie [illegible] ob-[illegible]

[illegible] externæ [illegible] & [illegible] sonos [illegible] varios tanquam in sinu colligere, [illegible] Hinc [illegible] sonos & [illegible] Hinc [illegible] imperator, quo [illegible] dret, [illegible] poteretur, quod & surdastr. fact [illegible] Scy[illegible] frigus aures commu-[illegible], cochleæ testã aureas admovent, ut in concavita-[illegible] aer [illegible], & ita melius [illegible] [illegible] tamen ex longo [illegible] depredas [illegible], rectius [illegible]

AURIS INTERNA [illegible] habet partes [illegible] pe- *Auris interna.* [illegible] contentas, & præter alias partes atque cavernulas, [illegible] *tympanum, duo musculi, vala & aer congenitus.*

[illegible] meatui auditorio cute investit [illegible], per quem soni ferun-tur, [illegible] *humor bilio'us* & viscosus, [illegible] dictus [illegible] cerebro non [illegible] extern[illegible] [illegible] vero hunc foramini [illegible]

Septum [illegible], vel membrana [illegible] circulo [illegible] cincta, alius Myrinx, alius [illegible] & [illegible] *tympanum* vocant, sed nonnullis rectius *Tympa-num.* *tympani membranula*, nam cavitati interne [illegible] [illegible] obtenditur, [illegible] [illegible]. A per[illegible] *Cæferio*, at per [illegible] *Fallopius*, cu & [illegible] extremitatis con[illegible]

Siccissima est, ut melius personet, nam sicca ad sonum aptiora sunt.

Pellucida [illegible] & subtilis ut soni facilius transmittan- *Surdi-tasn quadā-can-a.* [illegible] ab ortu [illegible] [illegible] & [illegible] externis [illegible] *cutis* & [illegible] plu-[illegible] voce [illegible] [illegible] *Gravis auditus causa quæ-a.* [illegible] dolores quoque capitis [illegible]

Pl[illegible]

propter prohibita excrementa, quod in pueto [illegible]

Est tandem nervosa tenuis adeo [illegible] ut nec stylo immissam, nec acres humores ferat & robusta, ut [illegible]

[illegible]

[illegible] addita sunt tria ossicula, quorum [illegible] primum [illegible] & [illegible]

Usus est meatum auditorium claudere, & aërem [illegible] [illegible] nova facta pulvere, aqua, animalculis, &c.

Tympanum cavitas. [illegible] *aërem* [illegible] *gonium* & [illegible] num medium est, ac ipsum organum audit[illegible].

Musculi auris. *Musculos duos* auris internæ statuunt Anatomici.

Primum internum vocant, in osse petroso situm [illegible] ejus cervici.

Usus, malleo [illegible] membranulam ad interiora pellere.

Secundus externus à *Casserio* [illegible] & *Aquapendente*, [illegible] *Parisanus* [illegible] *Casserium* hunc musculum negant.

Usus est, membranam [illegible] extror[illegible]

Notandus [illegible] quedam [illegible]

Mal. catarrh. in aure affectibus curantur? [illegible] masticatoria commodum juvant.

II. [illegible] valvula [illegible]

De capsula *Varro* [illegible] & *Posuan*, [illegible] *Archangelus* [illegible]

[illegible] tum ducere, quod Alcmeoni attribuit *Aristoteles*. [illegible] [illegible] [illegible] Abutuntur [illegible] [illegible] [illegible] tendunt.

[illegible] *nervus auditorius*, [illegible] ex quinto ce[illegible], per foramen [illegible], petrosi autem [illegible] [illegible] cochleam labyrinthum [illegible], cui ramulus additur ad musculos [illegible] a quinto pari habitus.

[illegible] *Cartesio*, [illegible] aeris per tympani mem[illegible] nervorum ope [illegible], [illegible] occasionem sonorum [illegible] concipiendi. Quorum impulsus [illegible] [illegible] & momento [illegible] cum plures impulsus invicem [illegible], vel tardius [illegible], componunt sonum [illegible] vel sua[illegible] vel asperior, vel acutior vel gravior.

Cap. X.

DE NASO.

A [illegible] auditus organum sequitur videlicet ol[illegible], *nasus*, datus homini & animalibus [illegible].

Dividitur autem, sicuti & auris, in nasum *externum* & *internum*.

Internus habet ossa & nervos cum processibus mammil[illegible] [illegible] quibus *suo loco*. *Appellationes partium nasi.*

Externus [illegible] [illegible] superiorem & [illegible].

Pars superior, quae ossea [illegible] *dorsum* [illegible] [illegible] [illegible] [illegible] *globu*[illegible] [illegible] [illegible] *pinna*[illegible] & [illegible] [illegible] in medio prominens [illegible] *columna* appellatur.

Interius dividitur nasus per *septum*, in duo foramina [illegible]

FIGURÆ EXPLICATIO.

Ostenduntur hac Tabula frontis, palpebrarum, nasi, buccarum, labiorum, maxillæ inferioris & auriculæ Musculi;

a. *Pericranium.*
b. *Periosteum.*
c. *Cutis pilosa.*
d. *Calvaria denudata.*
e. *Musculus temporalis.*
f. *Musculus auris superior.*
g. *Musculus occipitis ad aurium posteriores musculos protensus.*
h. *Musculus frontis.*
i. *Frontalis appendix supra dorsum nasi expansa.*
k k k. *Oculi musculus orbicularis.*
l. *Narium musculus triangularis.*
m. *Labiorum communis musculus attollens.*
n. *Labij superioris proprius musculus primus.*
o. *Labij superioris proprius secundus.*
p. *Buccinator musculus.*
q. *Masseter.*
r. *Labiorum musculus communis deprimens.*
s. *Labij inferioris proprius musculus mentalis deprimens.*
t t. *Labiorum musculus communis tertius orbicularis.*
u. *Nasi musculus circularis.*
x x x. *Helix auriculæ.*
y. *Anthelix.*
z. *Tragus auriculæ.*
Λ. *Antitragus.*
V. *Lobus auris.*

vel sinus, quos *nares* vocant, ut uno foramine obstructo altero inspirare & expirare queamus. [illegible] vero [illegible] ductos vicem nar[illegible] præstat. Quodlibet vero *foramen* na[illegible] *dividitur* circa ossis medium in *duas partes*: una [illegible] ascendit ad os spongiosum, altera supra palatum [illegible] fauces & os posteriora. Hinc potus aliquando per nares [illegible] & narium [illegible], [illegible] per os [illegible]. Hinc etiam cerebri excrementa crassiora, [illegible] in fauces [illegible] in os delabi possunt, aut seream eo attrahi, & per os expurgari.

Meatum

Meatum ostendit nobis singularem *Stenonius*, è naribus [illegible] proxime descendentem, exter oris loco intra [illegible] tectum, in brutis quam homine amplio[illegible] vicem supplet *vomer* in avibus posteriùs palatum dividens. *Meatus narium.*

Situs est in loco altiori, videlicet inter oculos 1. ob [illegible] 2. Quia omnis odor ad superiora fertur.

Numero [illegible], Speciem duplicis præbuit tumor [illegible] [illegible] pueris.

Magnitudo variat uti & *figura*, nam alii maximum [illegible] [illegible] minimum, &c habent, [illegible] [illegible] post *Aristotelem*.

Partes Nasi. … in ossibus, cartilaginibus, vasis sunt.

Cutis. … celeatis ab septo in se lemina … est & triangularis …

Musculi. … ad constrictionem.

Duo priores … juxta labiorum musculum, quem tertium … nasum exteriorem. *Casserius* myrthi fo… similes …

Duo reliqui qui fere triangulares, & literæ G …

… omnes A …

Duo primi constringentes …

… *Casserius* …

… en musculare …

Duo reliqui … tunica narium parte inter ore. *Oriuntur* … extremitate, & pinnis implantantur.

Præter … musculum carnosum … lat ori basi protensum, mox … guem nasi extremam deficere.

Cartilagines. *Cartilagines* substantiam constituunt … nasi, suntque *quinque:*

Duæ supernæ laterales, nasi ossibus …

Tertia, inter has media, septum constituit, vel mediam inter utramque nasi foramen.

His apponuntur *aliæ duæ* pinnas constituentes, & per … membranosa ligamenta colligantur.

Vasa. … *Vena* adsunt ex jugularibus,

[illegible] onibus, quas per foss[illegible]

[illegible]

[illegible] & ad musculos, atque ad palatum verg[illegible]

[illegible] foecunges à dura matre est, & communis [illegible]

[illegible]

[illegible] quæ spiritus cephalicus manifeste sentitur in ce[illegible]

[illegible] *Vasa* detexit *Stenonius*, a[illegible] *breviora* [illegible]

[illegible]

[illegible] ramum styli etinacem confluxit per nar[illegible]

[illegible]

[illegible] *Carnes spongiosas* observat [illegible] subtubras, quibus ossa Nasi spongiosa [illegible]

[illegible] *Insipum.*

[illegible] cerebrum [illegible]

[illegible] pulmones, pro ref[illegible] & vitalium spirituum generatione.

Ut per eum odores deferantur usque ad mamm[illegible] [illegible] supra os embriorum lactantes. Unde qu[illegible] [illegible]

[illegible] poros ossis cribriformis, ostendatq; extrem[illegible]

[illegible]

[illegible] sus valde penetrant, & subtiliora sun[illegible]
[illegible]
res percipiendi. At quæ vehementiori impetu [illegible]
[illegible]
eus odorex moderato motu.

4. [illegible] cum [illegible] novetunt *Joh. Vitalem Jo. Dom. Sala* præceptores nostri, & ego, qui nunquam per nares [illegible]

5. A[illegible] confert.

6. [illegible] in *Chronicis Auctores* [illegible] mentium Danorum [illegible] con[illegible] apud [illegible] *lem.* [illegible] *Hiatto* apud *Saxonem* [illegible] ad ornatum plurimum confert, [illegible] *Curtorum* [illegible] circa [illegible] nasum occupata, de qua Taghacotius.

CAP. IX.

DE ORE, BUCCIS, ET LABIIS.

R[illegible]

Appellationes partium circa os externarum. Partes externæ [illegible] *Superior* [illegible] oculos inter nasum & [illegible] *pudoris sedes*, [illegible] seu *pomum*, item *circulus faciei.*

Inferior pars [illegible] potest ut appareat [illegible] *bucca* [illegible] labri superioris *mystax.* [illegible] impressa & [illegible] *Philtrum* quasi amab[illegible] vero lab[illegible] Superius & [illegible] *prolabia* [illegible] *mentum* [illegible] *buccula.*

O[illegible] ut *maxilla superiori & inferiori* cum *dentibus* [illegible] *labiis, musculisque* [illegible] *buccarum*, & *maxilla inferioris.*

O[illegible] *tunica*, quæ & [illegible] & [illegible] constitu[illegible]

[illegible] *Usus oris.*

[illegible] & [illegible] facere.

2. Ad inspirandum & exspirandum.

3. Ad vocem.

4. [illegible] pulmonum [illegible] & [illegible] per [illegible], vomitionem.

Musculorum paria duo sunt buccis & labiis communia, duo ab utraque parte. *Musculorum labiorum paria, buccis communia.*

Primus est [illegible] musculus & *quadratus* [illegible], sub [illegible] buccas, quem veteres a cute non distinxerunt, [illegible] *Galeno*, [illegible].

Oritur [illegible] & posteriorem colli partem [illegible] diligenter notabunt Chirurgi, ne [illegible] per eas incidat, atque ita buccas ad [illegible] partem [illegible] faciat. [illegible] *contrahatur* [illegible] mentum, [illegible] & [illegible] nasi, [illegible] & [illegible] partem movet. Et hic primus in spasmo Cynico [illegible]. *Usus.* *Spasmus Cynicus.*

Secundus [illegible] est, qui buccas sua mole con[illegible] *buccinator* dictus, in buccinatoribus maxime [illegible]. Eo per gangraenam a morbillis consumto, labia ad latus revulsa vidi.

Rotundus est [illegible], tenuis & membranaceus, varias [illegible] sic conditus. *Figura buccinatoris.*

In [illegible] centro observavit *Casserius* [illegible] & [illegible], [illegible] parvum & [illegible] postquam terminatur, quod tamen pro commento habet *Riolanus*.

Oritur [illegible] a superiori maxilla, *inseritur* in in[illegible].

Usus est, buccas cum labiis movere [illegible] dentibus [illegible], tum hic [illegible] ad dentes cibos propellit, quo exactius comminuantur.

Labia constant ex carne [illegible] & fungosa. *Fallopius* [illegible] cutis musculosa, vel cu[illegible] taneus musculus esse videatur. *Labia.*

[illegible] & ventriculo commun[illegible] unde in [illegible] labiorum tremor. *Tremor labii in vomituris unde?*

[illegible] quae invicem se contingunt, rubent, ob sangui[illegible] fluxum.

Usus 1. Os claudere, & dentes, partesque interiores tue-

[illegible]

2. Ad [illegible]

3. Ad vocem & loquelam.

4. Ad [illegible] *[illegible]ctione.*

5. Ad ornatum.

[illegible] *propr[illegible]* [illegible]

[illegible] unicum tantum par movet proprium.

Par primum [illegible] *Fal-lopio* [illegible] *[illegible] de[illegible]ipsum* [illegible] *[illegible]mittuntur.*

Musculi [illegible] superius labrum moventia. *[illegible] par* [illegible] *ortum* [illegible] movet, interdum obl[illegible] labij confinio, unde dup[illegible]

Musculi utrique labro communes. Utriusque labi[illegible] *par primum,* [illegible] *oritur* [illegible] oblique descende[illegible] *[illegible]minatur.* Aliquando [illegible] par proprium [illegible]

[illegible] par [illegible] *ortum,* [illegible] labij con[illegible] *in[illegible]atur*, quæ obliquè [illegible]

Tert[illegible] [illegible] communis est [illegible] & [illegible]

[illegible] proprium p. Mentale [illegible] *[illegible]* [illegible] ad [illegible]

[illegible] Quæ [illegible]

[illegible] a [illegible]tatis nota.

[illegible] move[illegible] [illegible] deorsum ten-[illegible] [illegible]issima sunt. Hinc [illegible]

Inferiorum maxillæ musculi.

[illegible] *temporalis* [illegible] situ. [illegible] cavitat[illegible]

Temporalis.

[illegible] & [illegible] Maior [illegible] & [illegible]

[illegible] poralis *usus est* [illegible] quam [illegible] & [illegible] & q[illegible] [illegible] & [illegible].

Usus temporalis musculi.

Oritur vero à temporibus [illegible] & [illegible]

Nervi [illegible] in eum inseruntur, duo ex tertio pari, [illegible] mortis, præsertim [illegible] Et ob hanc distensionem *Hippocrates* [illegible]

Cur periculosa læsio musculi temporalis.

M[illegible] *Membranam* [illegible] & [illegible] & [illegible] [illegible], peric[illegible] [illegible]

Secundus [illegible] *Mansorius* [illegible]

Oritur [illegible] & max[illegible] *Inseritur* [illegible] & [illegible] & [illegible] & [illegible] [illegible].

Alter inferiorum secundus.

Alaris. *Tertium* par Pterygoides, [illegible] alare extern[illegible] *Fal-lopio* dicbetur, *Vesalio* vero temporalis [illegible] temporali [illegible] est.

Oritur ab osse sphænoide & processu alari [illegible] parte [illegible] nervo[illegible] parte [illegible] *Implantatur* [illegible] infer[illegible] cervicem & ejus capitis [illegible]

Usus, antrorsum movere & exterere.

Manso-rius al-ter. *Quartus masseterus alter* dicitur, vel ala[illegible] internus, crassus & brevis.

Oritur [illegible] ab osse sphænoid[illegible] processu [illegible] [illegible] *inferitur* parti [illegible] & [illegible] riori, tendine lato & valido.

Usus, max[illegible] [illegible] trahere, & retrorsum, & temporalem adjuvare.

Graphy-oides. *Quintus graphyoides* d[illegible]

Oritur ab appendice [illegible] vel [illegible] a po-st[illegible] ea parte proce[illegible] [illegible] mox vero teres & carnosus factus, in medio tendin[illegible] [illegible] redd[illegible] rursumque carnosus factus [illegible] *infer-tur*. Hinc duplicem ventrem habere [illegible] deinque *digastricus* [illegible] ligamento affixus [illegible] retrocedat, nam

Usus maxillam deorsum trahere, & os aperire.

Al[illegible] vero pro [illegible] pariter [illegible] dent ad mentum mediam max[illegible] à superiori parte sterni, clavicula & acromio [illegible] co[illegible] totamque faciem obvolventem [illegible] *Galenum*, Sy-[illegible] *Theophilum*, hic de [illegible] *Riolanus*. Nos [illegible] hujus capitis de illo egimus.

Glan-dulæ & vascula buccarū. *Glandulæ* in buccis [illegible] sunt, salivæ dicatæ. In homi-ne eas *Fr. Sylvius*, in [illegible] *N. Stenonius* [illegible] quoque *vascula nova* [illegible] glandularum [illegible] dulæ ipsæ [illegible] & [illegible] uvas referent, [illegible] vasis & nervis [illegible] tota[illegible] bucca[illegible] plan[illegible] rep[illegible] In h[illegible] eodem [illegible] ore, quædam glan[illegible] in unum corpus [illegible] fer[illegible] max[illegible] secundum longitudinem [illegible] *vas* [illegible] quod [illegible] in eadem [illegible] nisi expresso humore se produnt, nisi [illegible] parantur, in [illegible] bus tamen fuscus interdum co[illegible] [illegible] papillas [illegible] elevans.

CAP.

CAP. XII.

DE PARTIBUS IN ORE CONTENTIS, Gingiva, Palato, Uvula, Faucibus, & Osse Gutturis.

PArtes in ore contentæ sunt, præter dentes *gingivæ, palatum, uvula, fauces, vasa salivalia, os linguæ, lingua ipsa, tonsillæ, larynx, & œsophagi principium.* De tribus posterioribus [illegible] in libro secundo ob partium connexionem [illegible] est. De sex prioribus hoc agemus capite, & de lingua [illegible].

GINGIVA est caro dura dentes instar valli cingens, & [illegible] contritionem fa- *Gingiva.*
ciens: quæ vel exesa, vel nimis relaxata, vel [illegible] ta, dentes vacillant aut excidunt. Secunda [illegible] abscessu laborare, [illegible] chirurgorum, secundum longitudinem, ut facilius consolidetur.

PALATUM est superior oris pars instar tholi leviter concavum, unde oris cœlum dicitur, estque cerebri basis, ossi sphenoide formata. *Palatũ.*

Investitur *tunica* crassa, spongiosa, à crassa meninge [illegible] buccas & totum os intrinsecus cingit, [illegible] & [illegible] cuto communis, quamobrem etiam [illegible] consensus est. Nec caput masticatoriis expurgare possumus non simul ventriculum per palatum.

Nervulis ad sensum donatur.

Hanc membranam spongiosam *Schneiderus* vocat *glandulosam posteriorem*, quod pituitam contineat ex vasis vicinis [illegible] tam, digerat, & emittat sudoris specie, sive ex se, sive [illegible] puncta. Præter hanc plurimis *foraminulis* pertusam observavit *Stenonius*, sub ista tota *glandulosam carnem*, unde [illegible] *excretorii ductus* prodeunt, qui ipsam membranam [illegible] quasi cribrum formant, unde lentus humor [illegible], *Palatinas* has glandulas conglomeratas vocat *Glandula Palatina.*
[illegible] tonsillis continuatas.

UVULA à palato in os dependet penitius juxta narium meatus, supra laryngis rimam inter amygdalas. Aliis *Gargareon* dicitur a sono scilicet gargarizatu, item *gurgulio, columna.* *Synonyma.*

Estque processus ex SUBSTANTIA glandosa, spongiosa & [illegible] quam putat *Columbus* ortum ex palati tunica colore [illegible] *Riolanus* carnem potius credit ab extremitate musculorum, qui ad corpus feruntur, exsurgentem.

 Est

FIGURARUM EXPLICATIO.

FIG. I. Ex Schneidero.

I & II. *Est membrana quæ os vomer dictum tegit, & [illegible] tur membrana pituitaria anterior sit sub osse pa[illegible] in capite, utrinque valde fungosa.*

III. IV. V. VI. *Monstrant meatum aeris biformem quo aere naribus tracto tendit ad pulmones, & de[in]de per eundem meatum efflatur.*

VII. VIII. IX. X. *Designant membranam quæ additamentum ossis occipitis investit & tegit; hæc continet situm & cavitatem, quamobrem vocanda venit membrana pituitaria posterior.*

a b c d. *Designant magnum foramen occipitis quo spinalis medulla descendit.*

FIG. II. Ex Stenonio.

a. *Ostia vasorum a glandula buccarum inferiori prodeuntium, quorum nonnullis seta immissa est.*

b. *Aperto ductus salivalis exterioris in papillarum summâ & postremâ occurrens. Reliqua puncta innuunt cætera foramina per quæ compressione exsudans humor exit.*

FIG. III. Ex Eodem.

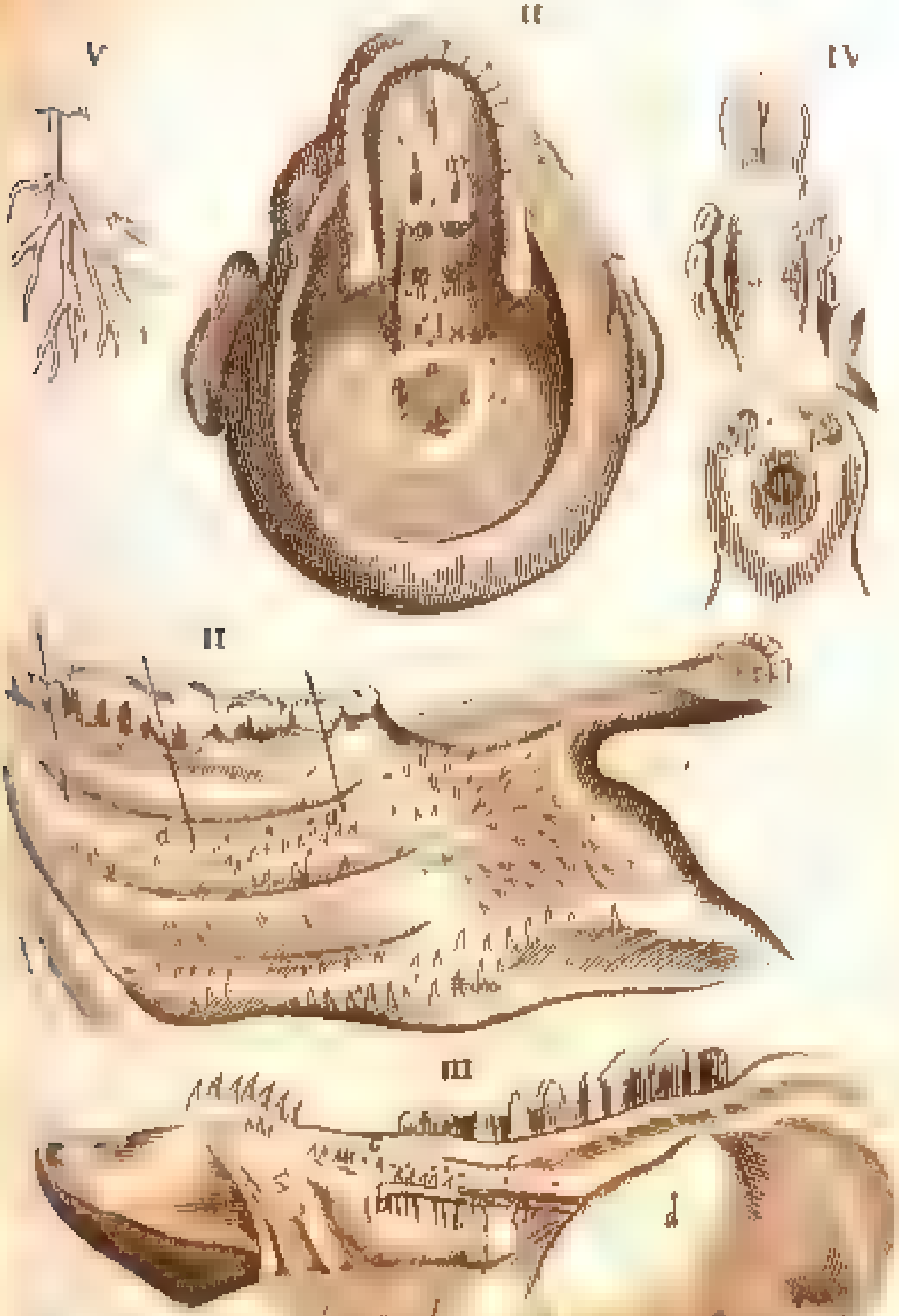
a. *Glandula sublingualis.*
b. *Vasa ejus.*
c. *Vasorum excretoriorum oscula.*
d. *Sinus ad latus linguæ observatus.*

FIG. IV. Ex Eodem.

a. *Foramina palati per quæ lentus humor exprimitur.*
b. *Tonsilla.*

FIG. V. Ex Eodem.

Vasculum unum ex illis quæ è glandula buccarum inferiori parte prodeunt.



ACCADEMIA ... LINCEI

FIGURARUM EXPLICATIO

Proponuntur in hac tabula Os Hyoides, Uvula & aliquot Linguæ musculi.

FIGURA I.

A. *Gargareon sive uvula.*
BB. *Par musculorum externus.*
CC. *Tendo eius.*
DD. *Par musculorum internus, nonnihil compressum.*
E. *Pars palati à qua uvula dependet.*

FIGURA II. & III.

AA. *Basis ossis Hyoidis.*
BBBB. *Eiusdem ossis latera sive Cornua.*
CC. *Appendices duæ cartilagineæ.*

FIGURA IV. Ex Casserio.

A. *Primus linguæ musculus ab externa appendicis styloidis parte ortus.*
B. *Secundus linguæ musculus.*
C. *Tertij paris quod genioglossum dicitur, musculus.*
DD. *Quintum par Ceratoglossum, extra situm.*
EE. *Nervus gustatorij.*
FF. *Nervi linguæ motorij.*
G. *Musculus ossis Hyoidis.*
H. *Processus plyliformis.*
II. *Os Hyoides.*
K. *Scutiformis cartilago.*
LL. *Musculi duo laryngis proprij.*

Uvulæ musculi. Est *rotunda oblonga, superius* crassior, & [illegible] desinit, [illegible] exiguis [illegible] externo & externo pari, *pterygostaphilinum* dicto *Falloppio* sive ad anteriora & retrorsum moveant uvulam in relaxatione, sive ut relaxatam ab humoribus iterum retrahant.

Ligamenta duo lata utrinque gargareonem connectunt, [illegible] expansis [illegible], Ga[illegible] *Anatomici* [illegible] ex *Aretæo Auctore Anatomia* vivorum, *Avicenna, Carpo* [illegible] *Rolfincius*, qui legi merentur. Habet homo ea pro vesiculis [illegible].

A[illegible]ndo ab humoribus delabentibus nimis dependet.

TABULA XIV.

Cassus uvula. & [illegible] *cassa uvula*, [illegible] & [illegible] *Hornius* [illegible] *Aquapendente* [illegible] Norvegia [illegible] *H. B. Bar.*

Usus, moderari aeris frigiditatem, ne subito in pulmonem [illegible]

Error vulgi. A [illegible] facere ad vocis modulationem [illegible] tiam, quae [illegible] re, mutea fit.

Secundus [illegible] *Johannes* [illegible] *Sa* [illegible] a primaeva aetate [illegible]

In palato sunt aliae glandulae, praeter jam dictas [illegible]

Maxillares glandulae. *Maxillares* vocat *Whartonus*, vel internae vel externae. *Externae* sitae sunt immediate intra maxilla inferiorem [illegible] & musculis quibusdam ferè tectae. Pars po[illegible] [illegible] *Hornius* [illegible] ab ossi hyoide [illegible]

In has praeter *arterias, venas*, & *nervos* inter se [illegible] def. [illegible] *Whartonus*, olim à *Galeno* [illegible] *Hoffmanno* [illegible] *Abbate*, *Abenfina*, *Isaaco* quo [illegible]

Ductus salivalis Whartoni. vero à primo inventore, *Ductus Salivalis Whartonianus*, cujus mentionem fecerat *Glissonius* [illegible] ad *Whartonum*. [illegible] *medio* [illegible] *gressu* [illegible] longo [illegible] tate, in os *aperitur*, eidemque humorem *salivalem* [illegible] quem communicare visus est, tam in homine quam bove.

In

In Homine [illegible] *van Horne*. [illegible] *In homine quatuor* [illegible] solum ad mediam maxillæ [illegible] & [illegible] in duas [illegible] quoque [illegible] *Lymphaticum* enim vas est [illegible] glandulis, [illegible] contenti, quem ex arteriis hauriunt copiose [illegible].

FAUCES [illegible] de toto oris [illegible] posteriore & inferiore parte, [illegible] non [illegible] *φάρυγξ* vocatur [illegible] vox apud *Hippocratem* sæpe notat [illegible] affectus, ut inflammationes, &c. *Galeno* dicitur *Isthmus*, ob loci angustiam.

In faucibus Os est, quod à forma Græcæ literæ υ di[illegible] *υοειδὲς*, item a forma [illegible] *λαμβδοειδὲς*. *Appellationes ossis hyoidis.* [illegible] *gutturis* & *os linguæ*, de quo hic agemus, [illegible] cum [illegible] cæteris partibus [illegible].

Est vero hoc os linguæ basis & fundamentum, super quo movetur. [illegible] vero præponitur.

[illegible] officulis, ad minimum [illegible] aliquando [illegible] septem, novem, ad summum undecim, vel [illegible]. *Constructio.*

Medium [illegible] est maximum, foris gibbum, intus [illegible] quo hæret Epiglottis, processus [illegible] cornua vocatur [illegible] constantes pluribus vel paucioribus, minoribus vel majoribus.

Cartilagines quatuor adduntur, duæ musculis oblongæ [illegible], in ventre ossis hyoidis, [illegible] quæ in quibusdam osseæ evadunt.

[illegible] annectuntur ligamentis & extremitatibus [illegible], item cum cartilagine gutturis.

Movetur hoc os, sed non nisi motu linguæ; ideo *quatuor paria musculorum* habet linguæ communia, nec nisi iis remotis linguæ [illegible] possunt. *Musculi.*

Primum par [illegible] cute latet, incumbens tracheæ & [illegible].

Oritur [illegible] & [illegible] principio ab altiore & interiore [illegible] unde hoc par dicitur *sterno hyoides*. [illegible] basi hyoidis. Atque in medio secundum [illegible] divisi sunt hi musculi.

[illegible]

Secundum [illegible] & quarto pari maxillæ inferioris

FIGURARUM EXPLICATIO

Ductus salivales exhibentium

Fig. I. In Vitulo Ductus salivalis externus ex N. Stenone.

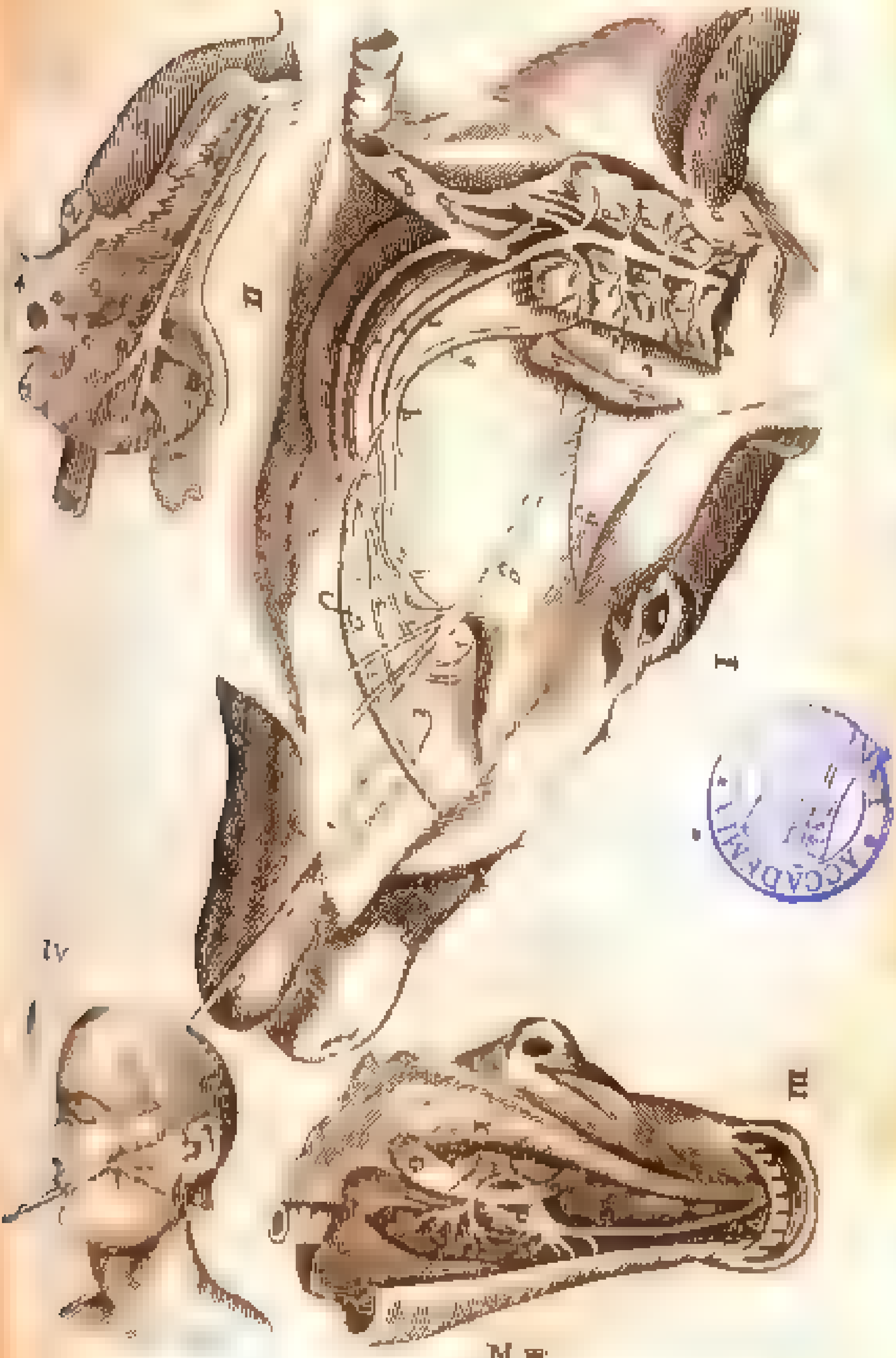
A. *Parotis conglomerata, glandula maxillaris Blasii.*
b. *Parotis conglobata, Parotis vera Blasii.*
c. *Lymphatica cum ex conglobata deorsum tendens.*
d. *Radices ductus salivalis exterioris.*
e. *Truncus ductus salivalis.*
f. *Venæ jugularis ramus exterior.*
g. *Nervi qui ut intra glandulam & caput, sic & extra illum locum, ut in* h. *sibi inosculantur.*
i. *Nervi funiculi ductum salivarium comitantes.*

Fig. II. & III. Glandula maxillaris cum Ductu salivali interiori, ex *Th. Whartono.*

A. *Posterior pars glandulæ.*
a a a. *Radices posteriores ductus salivalis.*
B. *Anterior pars glandulæ.*
b b. *Radices anteriores ductus ejusdem.*
C. *Truncus posterior ductus ejusdem, tendinem musculi biventris contendens.*
D. *Reditus ejusdem & unio cum ductu anteriore.*
E. *Truncus communis ductus salivalis.*
F G. *Musculus biventer.*
H. *Progressus trunci dicti versus dentes anteriores maxillæ inferioris.*
I. *Apertio ductus salivalis sub apice linguæ prope dentes incisores maxillæ dictæ.*
K. *Glandula rotunda maxillari assidens.*
L. *Series asperitatum sub linguæ latere.*
M. *Lingua extra sedem propulsa, ut vasis exitus cernatur.*
N. *Tonsilla.*
O. *Auricula foraminis.*

Figura IV.

Ductus salivalis externus in homine, ex communicatione *Ger. Blasii.*


I
II
III
IV

amplum, breve & totum carneum est.

Oritur à max[illegible] parte vario fibrarum ductu: *finitur* in media sede hyo[illegible] [illegible] *geniohyoides*.

[illegible] rectà & [illegible] trahere.

Tertium grac[illegible] & teres est, sub mento [illegible] a styl[illegible] appendicis [illegible] *finitur* [illegible] Aliquando in medio perforatur a Digastrico [illegible] culo maxillam aperiente.

Usus. *Usus* [illegible] latera movere, & [illegible] oblique [illegible] Dicitur *stylocerato hyoides*, aliis *stylohyoides*.

Quartum [illegible] & longum [illegible] musculo, quem quartum faciunt, later, obliqua ad latera de [illegible]

Oritur ex latere superno scapulæ prope [illegible] processum, unde *Coracohyoides* dicitur [illegible] osque ad ossis Hyo[illegible] latera [illegible] sæpe [illegible]. Est [illegible] hoc par [illegible] præ[illegible], & in medio instar tendinis extenuatum [illegible] admodum ille max[illegible] inferiorem [illegible]

A[illegible] *quintum par* linguæ aliquando [illegible] à *Fallopio* observatum. *Riolanus*, qui [illegible] *Mylogloss*[illegible] hic *Mylohyoideum* vocat: *Veslingius* vero *Genio*[illegible] de hic *Geniohyoides internum* appellat; qui [illegible] mento sub *Geniohyoide* pari proveniens in [illegible] [illegible] recta [illegible]

Usus ossis hyoidis est,

I. Ut sit basis linguæ. Et [illegible] cibo [illegible] *Vesalius*, perpetuo [illegible] impediret deglutitionem [illegible] moveretur, & [illegible]

II. Ut [illegible] musculi [illegible] linguæ & [illegible]

CAP. XIII.

DE LINGUA.

Situs. LIngua à lingendo dicta, in ore sub palato *Sita* est in homine.

Numerus. *Numero* unica, in vitulis [illegible] duplex, in serpentibus trifida, in lacertis bifida.

Figura. In homine oblonga, [illegible] & crassa, & ad radicem quidem crassior, in extremitate tenuior & acutior.

Magnitudo. *Magnitudine* [illegible] &

[illegible] *Galeno*, *I. Constantino*, [illegible]

[illegible] *caudam* [illegible]

[illegible] scalpello soluat, ne [illegible] impedimēto sit, & ut [illegible] manifeste linguæ [illegible] beat, tumque cavendum ne [illegible]

[illegible] sed ordinariè, tenui, porosa, ut [illegible] sapores [illegible]

[illegible] membrana *cornea* [illegible] *Malpighius* [illegible] obseruauit [illegible] membrana, eodem obseruatæ [illegible]

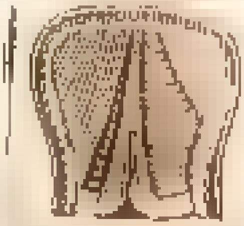
[illegible] *nervosam* & *papillare* [illegible]

[illegible] *Corpora* [illegible]

[illegible] *vasculosa* [illegible]

[illegible]

[illegible]



[illegible]

mobile. Sed hæc ratio falsa. Principium enim linguæ est in Laryngis vicinia, & quasi ex osse hyoidis ortum.

[illegible] unguæ sub lingua conspiciuntur, quæ secari [illegible] dicta [illegible] circa jugulari [illegible]. Hæ. — *Vasa.*

Arteriæ duæ manifestæ committuntur à Carotidibus.

Nervi linguæ inferuntur tam motorii quam [illegible] paris interiora perreptans, à [illegible] exterior [illegible] à quarta conjugatione [illegible] aliis tertia.

Distinguitur lingua in [illegible] partem [illegible] & [illegible] *per linneam* [illegible] *intercedentem mediam* dictam. Hinc Paralysis [illegible] altera. — *Lingua.*

Musculi LINGUÆ *proprii*, in ejus [illegible] stantia desinentes [illegible] censentur ab Anatomicis nonnullis [illegible] novem, ab aliis decem, ab aliis undecim [illegible] dextrorsum, & [illegible] sinistrorsum. — *Musculi.*

Primum par [illegible] est [illegible] *oritur* [illegible] in homine [illegible] *finitur* [illegible] *circa medium*

Usus, Linguam introrsum ducere. Sed ob [illegible] altera [illegible] Dicitur hoc par *styloglossum*.

Secundum par [illegible]

[illegible]

Usus [illegible]

Tertium [illegible] *oritur* [illegible] *transmittitur* [illegible]

[illegible] lateralem [illegible] fibrarum [illegible] versus est, ad exortum [illegible] laxa exsistunt; minima vero parte fibrarum [illegible] sum. Inscriptiones habet hoc par ac si [illegible]

 Quæ

FIGURÆ EXPLICATIO.

Ossis Hyoidis & Linguæ musculos exprimens ex Casserio

A A A. *Corpus [illegible]*
B B. *Corpus ossis Hyoidis.*
C C. *Primum par, Sterno[illegible].*
D. *Secundi paris [illegible] in [illegible] [illegible] remotu[illegible].*
E E. *Tertium par in medio perforatum.*
F F. *Quartum par Coracohyoides.*
G. *Qu[illegible] musculorum paris musculus.*
H H. *Linguæ parenchyma in quod nervi inseruntur.*
I. *[illegible] Linguæ [illegible] paris musculus.*
K K. *Primi linguæ musculorum paris musculus.*
L L. *Communes [illegible] laryngis musculi, Sternothyroidei.*
M M. *Communes alii laryngis musculi, Hyothyroidei.*
N N. *Cartilaginis [illegible].*
O O. *Musculus [illegible] inferioris, Digastricus dictus.*
P P. *Processus styloidis portiones.*

Quartum [illegible] ex superiore & media regione [illegible] [illegible] [illegible] [illegible] [illegible] re, ac si plures essent musculi.

Usus [illegible] trahere adeoque eam de[illegible] primere. [illegible] vel Ypsilo[illegible].

Quartum C[illegible] oritur a supe[illegible] cornubus hyoidis, & in linguæ latera juxta [illegible] [illegible] inseritur.

Oritur interdum ab inferioribus cornubus, [illegible] [illegible] [illegible] desunt, potissimum in mulieribus. [illegible] [illegible] par[illegible] [illegible].

Usus [illegible] deorsum inter loro [illegible] re, quando ambo agunt; si vero alteruter contrahitur [illegible] [illegible] movet dextrum vel sinistrum.

Ab aliis additur *undecimus* musculus, qui tamen [illegible] [illegible] est [illegible] [illegible] non constat ca[illegible] [illegible] [illegible] & pinguedine ad radicem [illegible] [illegible], atq[illegible] dictis musculis appa[illegible].

Usus est, ut hac [illegible] linguæ [illegible].

Diversæ ab his sunt glandulæ *sublinguales* [illegible] [illegible] [illegible] latera sitæ, *vasa* seu *ductus* angusto [illegible]

Ductus novi.

… excretorios obtinent à *Stenonio* revelatos … [illegible] … invicem paralleli, a lingua versus gingivam … ad digiti fere distantiam … per tunicam … ostiola vix conspicua, nisi premantur.

Usus.

[illegible]

Gustus organum.

[illegible] … quod *Wharton*o placuit … pulæ nervee, *Malpighio*; vel denique nervorum filamenta *Caro*…

An substantia linguæ externa.

Sed … *Malpighio* … ro 2. Observabat … saporès non ita alte … [illegible] … ex … *Aristotele* … [illegible] … potest … tanu, & nervis … externorum …

Vel membrana.

Membrana … *glandulosa* circa radicem max… sapores discer… [illegible]

Vel Papillæ nerveæ

Papillæ nerveæ … *Malpighium* … *Fracastorius* … eas omnia fere … [illegible] … ad frænum, veluti iners. Sed apex linguæ sapores … quæ experimur. De … nō est *Laudan* … in extremitate linguæ sit sensus gustus, in tota … Juvat observatio *Fracastorii*: in linguæ radice, … gustus voluptatem … quædam pars … quibus nervi veluti *fasciculis* … lingua … Arescente vero lingua, papillarum … Particulares tamen … non sunt.

… & … ta.

[illegible]

[illegible] & [illegible] offexas ingredi. Acidas aquæ particulas [illegible] terno influere, tenuissimas particulas [illegible] [illegible] affectantur. [illegible] [illegible] linguæ par- [illegible] [illegible] mollter cum [illegible] allambere. Aq[illegible] vitæ particulas omnium altissime penetrare, motuque celerrimo concitari. Particulas crassas & [illegible], adeoque poris destitutas, quia à saliva [illegible] [illegible] filamenta [illegible] [illegible], & [illegible] [illegible] [illegible] sal [illegible] figuræ sapores varios [illegible] tradit *Gassendus*.

II. [illegible]. Nam [illegible], quod invenis [illegible] de quo *Lusitanus*, [illegible] lingua [illegible] [illegible], [illegible] voce articulata [illegible] [illegible] totam expuit sine vocis [illegible].

III. Masticationem adjuvare, dum cibos hinc inde [illegible].

IV. Lambere. Variolis faciem defœdatam lambendo [illegible] Halm[illegible]. Et Edoardi Regis Anglorum [illegible] [illegible] Eleonora [illegible] curavit.

[illegible] linguam non absolute ad [illegible] abscindi posse [illegible] nova experta est post *Galenum*, *Zacutus*, [illegible], *&c.* *Lapides* sub lingua generatos usum [illegible] notarunt *Aven-zoar*, *Ionb[illegible]*, *[illegible]*, talesque Pauwij excreptos olim [illegible], seque vidisse refert *Blasius*.

ANATOMIÆ BARTHOLINIANÆ
LIBER IV.
DE ARTUBUS.

Artus quid?

ARtuum nomine veniunt membra ex trunco ex[illegible] per[illegible] Manus, inferius Pedes. In quibus p[illegible] considerantur [illegible] artera[illegible] nervi & ossa. De quibus [illegible] [illegible] agentes [illegible] quatuor sequentibus libris. De Musculis vero Artuum in hoc libro, [illegible] & de [illegible] [illegible], capitis, cervicis, thoracis, dorsi, &c. [illegible] [illegible] ad artus pertinent, [illegible] ad Anatomico [illegible] artuum demonstrari non [illegible].

Cur in hoc libro agendum etiam de musculis capitis, cervicis, thoracis, dorsi, &c.

Usus Musculi.

De Usu Musculorum verorum seu Artuum nemo dubitavit cum Galeno, ossibus movendis inservire. Negat tamen Jo. Cont. Stetterus habere motum transeuntem [illegible] [illegible] vere ossa, quia [illegible] [illegible]. Porrus [illegible] & [illegible] [illegible] sceleton, & [illegible] corpori suo formae elega[illegible] larg[illegible] non tantum [illegible] rigor[illegible] obnoxia reg[illegible] & [illegible] foveant, [illegible] & [illegible] illas cavitates [illegible] & [illegible] circumpl[illegible], [illegible] [illegible] [illegible] ossa [illegible] [illegible] co[illegible]. Ossa vero [illegible] [illegible] [illegible] moveri, flecti, extendi, circumgyrari, &c. Sed [illegible] [illegible], ad quos tanto apparatu [illegible] [illegible] affixo[illegible] opus non [illegible] [illegible] moveri, [illegible] [illegible], sicut [illegible] [illegible], moventur, [illegible] & [illegible]. Notum [illegible] [illegible] [illegible] accola. Q[illegible] magis & [illegible]? Praeterea, ossa immobilia sunt per [illegible] [illegible] externo inferuntur. Nec mota sunt, [illegible]

ab

[illegible] commoveantur. Vulnerato, corrupto [illegible] non cessant, quam [illegible] tatis spiritus. Propior vero est *Pars, Partus* [illegible] *fiet* est [illegible] *simpliciter* [illegible] sed variare [illegible] & [illegible] efficere [illegible] instrumentorum [illegible] spiritus [illegible] & se dividere in varios [illegible] membris, quae plures motus differentias [illegible] composita membra [illegible] masculos.

Cap. I.

DE MANU IN GENERE ET DE UNGUIBUS.

Manus *Aristoteli* est organum organorum, quo homo [illegible] & inermis donatur, ne brutis [illegible] ab iis vincatur, sed vincat, dum arma parat, [illegible] instrumenta sibi necessaria. Quare secus quam bruta [illegible] & manum homo accepit & haec quidem [illegible] est. *Manus usus.*

Est autem Manus ex veterum *Hippocratis* & *Galeni* significatione pars a summo humero, usque ad digitorum extremitates, diciturque summa manus. *Manus quid?*

Et *dividitur* in brachium & manum stricte sic dictam seu extremam. *Manus in partes divisio.*

Brachium [illegible] in humerum sive brachium [illegible] sumptum & cubitum.

Brachium [illegible] sumptum est pars à summo humero [illegible] ad cubiti flexuram.

Cubitus [illegible] pars a flexura [illegible] ad carpum.

Manus extrema dividitur in brachiale vel carpum, [illegible] pars inter cubitum & palmam, in *postbrachiale* [illegible], [illegible] pars inter carpum & digitos [illegible] & in *digitos*. Postbrachialis pars [illegible] *vola* manus & *palma*; pars externa, *dorsum* manus.

Digiti plures [illegible], ut melius fieret manus actio, quae [illegible] non [illegible] comprehenderemus, [illegible] sit digitis, & [illegible] figuras. & quia omnia a una manu comprehendi non possunt, [illegible] *Plures digiti cur dati?* *Manus actio.*

suas

[illegible] creatæ, ut ad se invicem [illegible] aux [illegible] præstarent.

[illegible] vigilior ut plurimum & ad motum promptior est, [illegible] sed 1. quia in dextro latere homini est vena [illegible] forte in ambidextris gemina est. 2. quia ossa graviora [illegible] habent [illegible] dextra [illegible] dextram sinistra, & a [illegible] primum impetum [illegible] motus est in parte dextra, ut homo pro[illegible] moveat pedem dextrum, aves volare [illegible] alam dextram. 3. quia truncus arteriæ [illegible] tum aut lævi fiant. At *Aristoteli* placet, ab ortus [illegible] motus dextram partem ferme semper calidiorem, & [illegible] exercitatione [illegible] ad eam consuetu[illegible] calorem spiritusque quis traducat, ut [illegible].

De quo-rum ma-nuum. [illegible] perfectam [illegible] sunt [illegible] Præter [illegible] *Mentz* vidi & [illegible] [illegible] ustorum loco puncticula tantum quædam & [illegible] apparerant, quod hic [illegible] per observavi.

Primus pollex dicitur, quia robore pollet, & [illegible] ponitur quatuor reliquis in apprehensione, ideoque [illegible] ius est.

Secundus index & demonstrator dicitur, quia ipso in [illegible]

Tertius [illegible] *impudicus* dicitur, [illegible] apud Medicos [illegible] neque annulis ornari solet.

De digi-to an-nulari error. *Quartus medicus* item *annularis*, quod annulo aureo ante alios ornetur, ob communem, sed falsam & Anatomiæ repugnantem novantiquorum opinionem [illegible] corde [illegible] gitum accederet. Cor vero auro confortatur.

Quintus auricularis, minimus, quia eo ob parvitatem aures [illegible] expurgamus.

Appe-

Apprehensionis vero, qua manus actu vel [illegible] [illegible] est principium, [illegible] totius manus apta compositio. Præcipuum tamen hujus motus organum est musculus: firmamentum ossa, quæ in [illegible] quorum [illegible] nequam sufti- [illegible] [illegible] [illegible] ne donantur, aut [illegible] un- [illegible] ad [illegible] & faci [illegible] [illegible].

Apprehensio. *Manus compositio qualis.*

[illegible] usus est, [illegible] *Hy-pera* [illegible] [illegible] [illegible] [illegible] [illegible] & [illegible].

[illegible] quoque præ [illegible] [illegible] [illegible] *Martagnum.*

De ungu-ibus.

[illegible] extre[illegible] [illegible] lamula canata [illegible] adnata.

Materia non est [illegible], ut voluit *Æmilius Parisanus*, *Hippocr.* [illegible] [illegible] non quæ ex [illegible] *Aegina*, aut ab [illegible] re, quod magnus *Hip*[illegible].

Efficiens, calor, [illegible] in hanc potius [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] & [illegible] [illegible] [illegible] [illegible] æmulaban- [illegible] [illegible] deformitatem in [illegible] [illegible] excrevisse a me observata. Non nos moveat quod [illegible] in [illegible] colo- [illegible] non magis [illegible] [illegible], Nec [illegible] major in [illegible] quæ a majori excrementorum [illegible] dependet.

Finis & Usus.

I. [illegible] extremitates mollissimas tueri, & [illegible]

gentur

[illegible] apprehensio. Sic etiam in ped[illegible] [illegible] fieri [illegible]. Unde [illegible] loco collocandis Deus aberrasse [illegible].

II. Ad ornamentum; nam [illegible]

III. Secundario ad fricandum [illegible] den[illegible]um.

IV. Corpus humoribus superfluis & [illegible]

V. Physiognomis & Medicis [illegible] & [illegible] præbere, qui passim videntur. Oneiroc[illegible] Judæorum, Persarum & Ægyptiorum traditione [illegible] *[illegible]* 67. 71.

Formam [illegible] ex accidentibus. Tales ab [illegible] mo[illegible], etiam *Catone* dicebantur [illegible] [illegible] *Hollerius*, [illegible] habent [illegible] & [illegible] o[illegible] more lupi.

Figuram habent convexam [illegible], [illegible] digitos.

Substantiam habent mediocriter [illegible] tamen flexilem, ut cedant [illegible], & [illegible]

Color unguiū & unde desumpta signa. *Pellucidi* [illegible] & ideo varie co[illegible] ca[illegible] [illegible] rubent, [illegible], &c. H[illegible] rem [illegible] solent Medici [illegible] cordis [illegible] fusci, & frigidioribus temperamentis pal[illegible] gues, at qu[illegible] albæ quæ in unguibus [illegible] à calore vegeto proveni[illegible] qu[illegible] ad ungues protrudit, & ab [illegible]

Sensus unguiū unde? *Connectuntur* circa radicem *ligamento*. [illegible] tendines musculorum [illegible] fus, & ex læsione magnus dolor.

Hæc breviter ratione compendij de unguibus.

Cap. II

DE MUSCULIS HUMERI seu BRACHII specialiter dicti.

R[illegible] partibus continentibus communibus, cute [illegible] membranam carnosam, &c. [illegible] Musculi [illegible] motus [illegible] loco [illegible] & necessaria est [illegible] & ea [illegible] potuerunt.

[illegible] de [illegible] musculos [illegible] extensionem [illegible] & [illegible] flexo [illegible] est extensione.

Movetur Humerus varie, [illegible] varios habe[illegible] in thorace [illegible], partim [illegible] &c. [illegible]

Deltoides, &, *supraspinatus*, [illegible] major [illegible] *infra spinatus*, [illegible] brevior [illegible]

[illegible] ceslive [illegible]

[illegible] observavimus.

Primus Pectoralis dictus, quia pectus vel thoracis [illegible] occupat, [illegible] & carnosus, quem *Galenus* [illegible] vel quatuor [illegible]

Oritur ex ossi pectoris [illegible] & [illegible] parum [illegible] & costis [illegible] & robusto [illegible] os humeri, inter [illegible] &

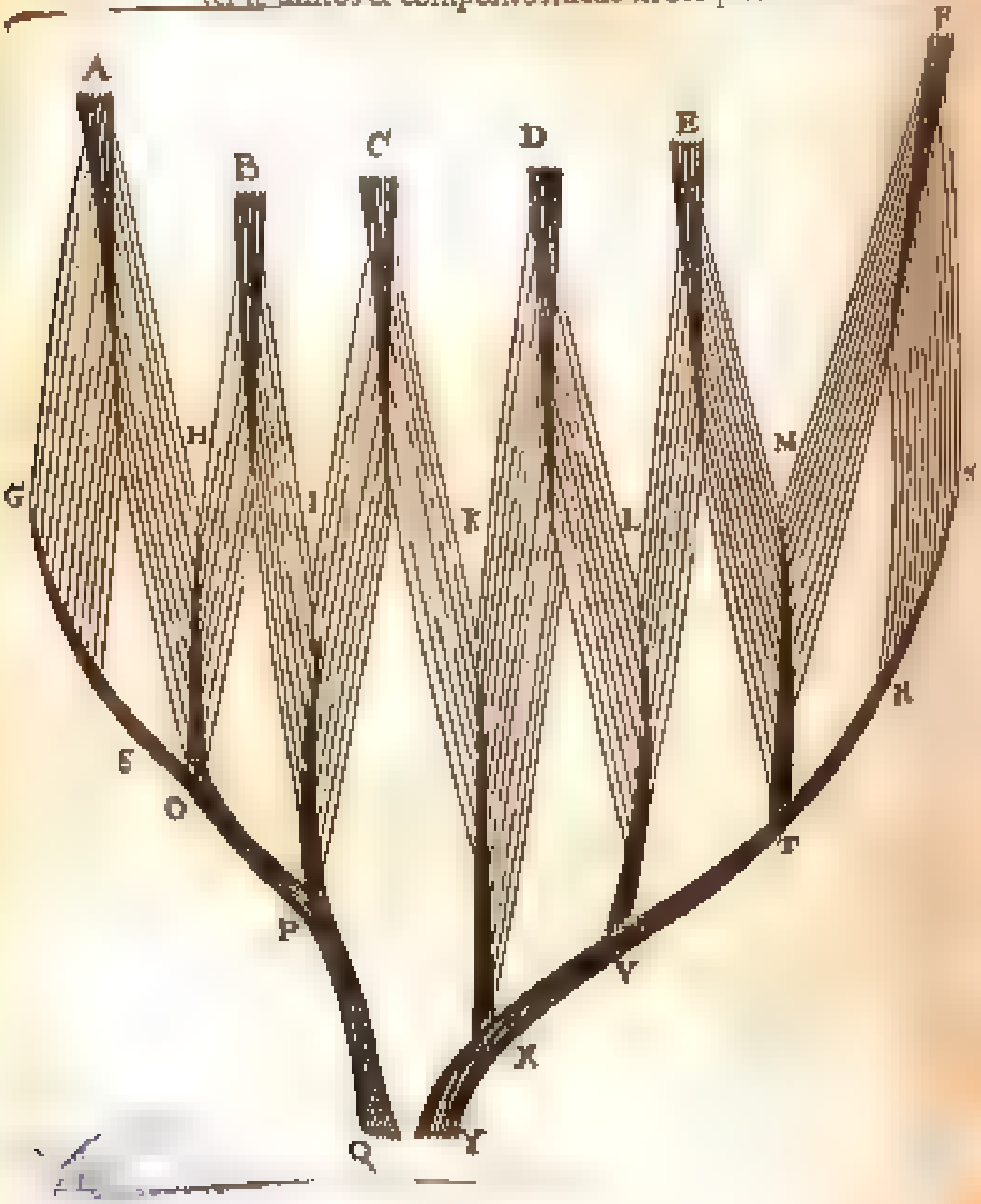
[illegible] pectori [illegible]

[illegible] *tractu de costis* [illegible]

[illegible]

item *triangularis humeralis* qui carnosus est & p[illegible] humeri atque capiti [illegible].

Oritur ex [illegible] parte, scapulam spectante & ex [illegible] *Inseritur* [illegible] cum sinum [illegible] tamen robustis [illegible] musculi [illegible] *Seruntur* [illegible] [illegible] lineatos & compositos, acut in hic [illegible]



[illegible] in [illegible] parte [illegible] extrema [illegible] *brachium Cass. Bar-* [illegible] *de* [illegible] vena Cephalica. — *Locus fonta-nellæ in brachio*

Est inter musculum & [illegible] ab [illegible] tractare non potest. Locus autem exacte invenitur, [illegible] quatuor aut [illegible] quos [illegible] demisso brachium pectori [illegible] musculorum duorum, & [illegible] brachio [illegible] levi concavitate circumscribitur, ut advertunt *Laurentius* [illegible] *Ferrara* [illegible] quatuor digito-[illegible] [illegible] & [illegible] proce-[illegible]. Vide [illegible] *Glandorpium.*

[illegible] Latissimus est, & totum fere dorsum cum [illegible] tegit. Dicitur Aniscalptor, quia brachium [illegible] dorsum trahit.

Oritur principio membranoso & latissimo, a vertebrarum [illegible] spinæ apicibus, ab osse sacro usque ad sextam [illegible] vertebram: *inseritur* inter pectoralem & rotundum [illegible] brevi ac lato tendine. *Figura* est triangularis. — *Usus.*

Bauhinus ex Galeno contra Vesalium, docet [illegible] [illegible] principio [illegible] a [illegible] angulo inferiori [illegible] [illegible] principium habet, diversaque ideo [illegible] prout variæ contrahuntur, ita vel versus superiora magis, vel versus inferiora humerus deprimitur. Quia vero angulum scapulæ inferiorem quoque [illegible], [illegible] quoque eandem cum humero [illegible].

Quartus dicitur Rotundus Major, estque [illegible] parte postica sub axilla, carnosus, crassus, & [illegible].

Oritur [illegible] a costa inferiori scapulæ, & [illegible] tendine [illegible] brevi, lato [illegible], *implantatur* [illegible] humeri partem [illegible] & [illegible].

Usus est [illegible] brachium retro deorsum trahere, & [illegible] [illegible].

[illegible] brevis est & rotundus, totus carnosus qui [illegible] ex [illegible] scapulæ angulo *pullulat*, postea magis [illegible] crassior [illegible] ventrem, unde [illegible] [illegible] *finitur* in ligamentum, quo humeri caput [illegible] est.

Situm habet obliquum, diciturque aliis Transversus [illegible] Brevior, aliis *rotundus minor*. Et est octavus [illegible] quem [illegible] aliqui putarunt esse portionem quandam quarti.

FIGURÆ EXPLICATIO.

Hæc Tabula omnes corporis Musculos ab Autore descriptos, qui ab anteriore parte conspici possunt, exhibet.

A A. *Musculi colli Longi dicti*
B *Scalenus musculus*
C. *Mastoides musculus capitis flectens.*
d d. *Vertebræ colli.*
E. *Levator scapulæ.*
F F. *Claviculæ.*
G G. *Os sternum.*
H. *Acromion Humeri.*
i i. *Musculus subclavius.*
K. *Pectoralis.*
L. *Deltoides.*
M M. *Biceps.*
N *Perforatus.*
O. *Serratus minor.*
P P. *Serratus major*
q q q q. *Musculi intercostales.*
R R R R. *Brachiæus in utroque brachio ab utraque parte conspicuus.*
S S. *Brachium extendentium primus seu Longus.*
T T. *Musculus radii pronator rotundus.*
V *Radii pronator quadratus.*
W *supinator radii primus*
X. *Carpi flexor primus seu internus*
Y. *Musculus palmaris*
Z. *Carpi flexor alter, seu externus*
α. *Os radii.*
β. *Os cubiti.*
γ *Ligamentum cubitum radium contingens.*
Γ *Musculus digitorum flexor sublimis seu Perforatus*
Θ. *Profundus huic substratus seu Perforans.*
ι ι ι *Musculi lumbricales*
ζ. *Flexor pollicis.*
κ λ *Pollicem adducentes musculi.*

Sequentes characteres inserviunt Musculis demonstrandis, qui a lumborum regione ad extrema usque pedis ...

A. *Musculus Psoas seu Lumbaris*
B. *Iliacus.*
C. *Obturator internus.*
D D D D. *Triceps.*
E. *Lividus.*
F F. *Rectus in situ, sed in femore dextro à fine suo dependens.*
G G. *Vastus internus*
H. *Vastus Externus qui in femore dextro dependet separatus*
I I. *Membranosus, seu fascia lata.*
K K. *Cruræus.*
L L. *Longus, fascialis, seu sartorius.*
M M *Gracilis*
N N. *Tibiæus anticus.*
O *Peronæus anticus.*
P P. *Quatuor pedis digitos extendens musculus.*
Q. *Pollicem extendens musculus*
R. *Gastrocnemius.*
r r r r. *Musculi interossei.*
S. *Ligamentum transversum pedis.*
T. *Tibia.*
V. *Fibula.*
X. *Patella.*

Sextus Infraspinatus dicitur, item *superscapularis inferior*, quia scapulæ partem externam & gibbam totam tegit, cujus etiam formam habet, angustior vero factus, tenui & lato brevique ligamento humero inferitur.

Usus: brachium ad exteriora circumagere retrorsum.

Septimus Supraspinatus, item *superscapularis superior* aliis *rotundus minor*, supra [illegible] cavitatis & oblongus, implet cavitatem inter costam scapulæ superiorem, & ejusdem spinam, è qua *nascitur*.

Inferitur vero [illegible] & valido [illegible] cervici humeri ad [illegible] attollitur [illegible] supervehitur.

[illegible] D [illegible] partes [illegible] posterius alius sursum cum [illegible].

[illegible] Subscapularis dicitur, seu *immersus*, carnosus valde [illegible] scapulam & costas [illegible], & occupat [illegible] scapulæ, [illegible] vero lato tendine in [illegible] ligamento [illegible].

Usus: brachium [illegible] circumagere.

Nonus. Non musculus [illegible] *Arantio & Placentino* [illegible] in anteriori brachio, Perforatus dictus.

Oritur a Coracoide processu Scapulæ, unde *Coracoideus* [illegible] *coracobrachieus* dicitur *Riolano*; *inferitur* in internam [illegible] circa medium juxta tendinem Deltoidis [illegible] nervosum & breve, oblongum ventrem [illegible] & rotundum tendinem. Venter ejus perforatur, & transitum nervis largitur, qui ad [illegible] [illegible] buntur. Hunc musculum aliqui tantum musculosam portionem bicipitis vocarunt.

Usus: ad brachium scapulæ processui adducendum, sive antrorsum supra pectus attrahendum.

Cap. III.

De Musculis Scapulæ, seu Homoplatæ.

Quia movetur Scapula antrorsum, retrorsum, sursum & deorsum, ideo *quatuor* accepit *musculos*, quibus tamen alii duos addunt, Serratum majorem & [illegible], sed male. Nam hic est ossis hyoidis, ille vero thoracis proprius. *Error alterius.*

I. Dicitur Serratus Minor, estque musculo pectorali substratus.

Oritur a costis superioribus quatuor, excepta prima, &

 fumit

sursum oblique ascendens, sive [illegible] carneo, partim tendineo, [illegible] scapulæ *inseritur*.

Usus antrorsum ad thoracem adducere.

II. *Cucullaris* TRAPEZIUS [illegible] aliis *Cucullaris* ob figuram, quod referat cucullam Monachorum [illegible]. An autem musculus hic [illegible] sit tanquam tessera vitæ religiosæ, sicut conjicit *Riolanus*, non credo, quia & alii Religiosi sine cucullo, & cum hoc pariunt munus religiosi, sive professionem sive [illegible] cucullo [illegible] Monachis Christianis ad [illegible] Monachis.

Oritur carnosus & tenuis ab occipite. [illegible] thoracis vertebris [illegible] descendit, [illegible] & [illegible] scapulæ [illegible], spinæ, scapulæ summo, humero & claviculæ inseritur.

Sed ob varium ortum, variasque fibras

Usus. Variè movet scapulam, sursum, oblique ob fibras oblique ab occipite ad omoplatam descendentes, quod frustra nobis negat *Riolanus*, deorsum ob fibras inductum ab octava dorsi vertebra ascendentes, & recta ad dorsum, ob fibras rectas in medio musculi ad scapulam protensas.

III. RHOMBOIDES à figura quadrilatera, sub cucullari situs, tenuis & latus.

Oritur à tribus inferioribus colli & tribus superioribus thoracis vertebris, eademque latitudine basi scapulæ *inseritur*.

Usus est, nonnihil oblique sursum ad posteriora trahere.

IV. LEVATOR, aliis *Patientiæ* musculus, quia elevat scapulam, quod illis non ex voto res succedunt, supra claviculam est.

Oritur à vertebrarum colli [illegible] transversis processibus, variis principiis (unde plures videri possunt) quæ mox coeunt, & *inseritur* in angulo scapulæ superiori & interiori, lato & carneo tendine. Usus ejus antrorsum trahere & attollere scapulam cum humero.

Hi soli musculi scapulam per se, & brachium per accidens movent, sicut scapula per accidens a brachii musculis.

CAP.

Cap. IV.

De Musculis Thoracis, seu Respirationis.

Respirationi [illegible] musculi, [illegible] diaphrag[illegible] [illegible] intercostales, [illegible] qui abdominis, de quibus [illegible] & 2. actum, &

Thoracis *proprij* qui recensentur *utrinque* sex, q[illegible] [illegible] *Ra[illegible]* [illegible] cervice, qui [illegible] sunt partes musculorum cervicem & dorsum occupantium.

Proprij thoracis *musculi* thoraci adnati [illegible] *subclavius & triangularis*, Latera occu[illegible] *serratus major*, [illegible] posteriorem parte, nempe, *serratus posticus utrinque*, & *sacrolumbus*.

I. Subclavius; eo quod sub clavicula situs sit, [illegible] [illegible] clav[illegible] & [illegible] costam. *P[illegible]* [illegible] intercostales numerat.

Oritur carnosus a parte interiore & inferiore clavicu[illegible] *Inseritur* carnosus in partem superiorem primæ costæ, [illegible] & exteriorem [illegible]. [illegible] Hunc [illegible] usum assignat *Spigelius*, claviculam [illegible] quæ per [illegible] tamen [illegible], quæ & contra[illegible] [illegible] contrariam infermonem adiecit[illegible].

II. Serratus Major magnus est, latus & [illegible] [illegible] cum abdominis [illegible] descendente [illegible] compagem efficit.

Oritur carnosus ex basi interna scapulæ. R[illegible] [illegible] observavit a costis duabus superius [illegible] [illegible] quæ costæ [illegible]. *Porrigitur* [illegible] qu[illegible] inæqualibus extremis ad costas [illegible] [illegible] nonnunquam & ad spurias duas, [illegible] *Spigelius*, & *V[illegible]*. [illegible]

III. Serratus Posticus Superior, [illegible] [illegible].

Oritur à spinis colli inferioribus & [illegible] [illegible] *[illegible]* [illegible] [illegible], tripartitus: & eas costas [illegible].

IV. Serratus Posticus Inferior [illegible] [illegible] & latus fere in dorsi [illegible] a [illegible], à spinis vertebrarum [illegible] [illegible]

 tat

tus. *Inferitur* ad [illegible] in quæ [illegible] vel [illegible] *Vsus*, thoracem [illegible]

V. Præcedenti substernitur, & alter putatur communis esse [illegible] thorac. Dicitur S[illegible] *oritur* ad [illegible] posteriori parte, & [illegible] cipuus [illegible], externas nervosas. *In* [illegible] prioribus [illegible] tenerius, [illegible] N[illegible] *Vsus* [illegible] strata [illegible] quæ [illegible] extendere & erigere.

VI. I[illegible] ABIS parvus est & subtilis, in maci-lentis vix [illegible] sternum [illegible] *Sterni* [illegible] de appellari potest. *Inseritur* [illegible] ossis, quas adducit, & thoracem [illegible] nem esse musculorum intercostalium [illegible] *Marchettus*, a quibus absque [illegible] separari non potsit.

CAP. V.

DE MVSCULIS CAPITIS.

M*Ovetur* CAPUT [illegible] tum a cervicis [illegible] rum vertebrarum [illegible] & [illegible] sum & [illegible] flectendo [illegible] processum, [illegible] ter, velut [illegible] sui omni [illegible]

Primum par *longum* & crassum, [illegible] nonnullis *Splenium* [illegible] *Oritur* [illegible] principio, imo à spinis vertebrarum thoracis superiorum [illegible] altero à quinque spinis inferioribus vertebrarum [illegible] laterabiliter vero [illegible] *Marchettus*. *Vsus* [illegible] caput ad posteriora recta trahere. Si vero alteruter tantum agit, erit [illegible] in latus motus fieri putatur.

Secundum [illegible] & *complexum* est atque [illegible] Videtur quasi ex tribus musculis constare [illegible] habet

habet, ad septimam cervicis, primam, tertiam, quartam thoracis vertebram, varia atque ratione in occiput implantatur. Spinalis & Complexi fibras notat Riolanus decussatim [illegible] & dispositas ad utriusque musculi robur.

Tertium par sub secundo pari latens est, *parvum* & crassum, [illegible] *Vesalius* vocat [illegible] quartam partem [illegible] *Inseritur* in processus mammillaris posteriorem radicem. *Usus* est, caput retrorsum leviter ducere, & si alterutrum agat, retrorsum ad latus.

Quartum dicitur *rectum majus*, parvum, carnosum & [illegible]. *Oritur* a secunda colli vertebra, *desinit* in medium occiput.

Quintum rectum minus sub priori pari latet. Oritur eius a prima vertebra colli, inseritur & *usus* est, ut tertii & quarti.

Sextum obliquum superius a hoc subtus latet. *Oritur* quidem latum è medio occipitis, & deorsum descendens *inseritur* transversim in apices processuum vertebrarum colli. Alii non male ut *Veslingius*, oritur a primae vertebrae processu, desinitque in occiput iuxta latus externum rectorum.

Septimum Obliquum inferius a secunda colli vertebra *ortum*, processui transverso primae vertebrae *inseritur*.

Usus utriusque obliqui est circumagere ad latera caput.

Octavum Mastoides partem anteriorem colli, longum & teres, *oritur* fere duplex a sterni & claviculae summa parte, *inseritur* fine carnoso & crasso in mammillarem processum. *Usus*, caput flectere.

Nonum par *Fallopius* addit, sub gula in anteriore colli parte, adjacens primo cervicis pari. *Oritur* nervosum à ligamentis vertebrarum cervicis, *inseritur* in basin capitis, quod pariter cum priori flectit.

Cap. VI.

DE MUSCULIS CERVICIS, seu COLLI.

Musculi Colli utrinque *quaterni* sunt. Duo primi flectunt, duo reliqui extendunt.

I. Longi *duo* sub oesophago latitant à quinta thoracis vertebra principium sumentes carneum & acutum, ascendunt in primae vertebrae processum exsurgentem in acutum [illegible] quando & occipiti prope magnum ejus foramen *inseruntur*.

Vsus est, [illegible] caput: si vero unus agat, in latus flectit.

His flexoribus [illegible] *Marchetto* [illegible] ctorum.

II. SCALENUS [illegible] tus a prima costa, [illegible]

III. TRANSVERSALIS [illegible] vertebris [illegible] vertebrarum [illegible] arctiore, ut si [illegible]

IV. SPINATI [illegible] pant, [illegible] & ampli. [illegible] vertebrarum [illegible] sam [illegible] vertebræ partem valide *implantantur.* *Vsus*, ut tertij paris.

CAP. VII.

DE MUSCULIS DORSI ET LUMBORUM.

MOvetur SPINA DORSI antrorsum, retrorsum [illegible] tota & [illegible] mos dorsi [illegible] tendines ac si plures [illegible] Anatomici [illegible] tendines. Constituuntur vero quatuor paria [illegible] veri [illegible] par, [illegible]

Primum par [illegible] adhærens [illegible] fibris [illegible] vertebrarum lumbarium, ortum [illegible] & carnosum. [illegible] dorsi, & [illegible] lis [illegible] & rectis [illegible] tro [illegible] compositum [illegible] pachy [illegible] fl [illegible] & compagines [illegible] ex [illegible] pet

[illegible] musculi est *Usus*, lumborum vertebras [illegible]

Secundum Longissimum, *oritur* acuto & valido tendine [illegible] a extremo ossis sacri [illegible], & ossi [illegible] cum Sacro- [illegible] cum fere con[illegible]tur, donec [illegible] pro- [illegible] vertebra ab illo separetur. [illegible] transversis [illegible] vertebrarum lumborum processibus, quibus [illegible] tur ve- [illegible], tandemque definit modo in primam [illegible] thoracis, modo ad processus mamillares pro- [illegible]. *Usus*, thoracem, lumbos, & eorum vertebras, extendere.

[illegible] est, quod Sacrum appellatur, [illegible] *oritur*, [illegible] & [illegible] vertebrae thoracis spinam, [illegible] lumbarum [illegible] processus, [illegible] bus *finitur*. *Usus* ut prioris.

Quartum Semispinatum, *ortum* ubi praecedens definit [illegible] vertebrarum thoracis spinas [illegible] *& definit* in spinam primae thoracis vertebrae. *Usus*, thoracem erigere.

[illegible] omnes [illegible] dorsum rectum detinent, & hominem [illegible] sustentant. Nec ulli praeter hos [illegible] lumborum sunt musculi, nec hic cognit[illegible] vel praetermiserunt, ut [illegible] *Riolanus*, vel ignorarunt.

Vertebrales omnes musculos [illegible] in ordinem redegit *Stenonius*. [illegible] vertebralis musculus [illegible] vertebris continua est, estque vel *Rectus*, vel *Obliquus*. — *Vertebralis musculus.*

Rectus, cujus utraque extremitas est in eadem linea [illegible] medio [illegible] parallela, isque vel *Medius*, cujus utraque [illegible] continuatur mediis processibus, seu spinis vertebrarum, vel *Lateralis*, cujus utraque extremitas continuatur lateralibus seu transversis processibus vertebrarum. [illegible] spectant *Spinati*, [illegible] *Transversi*. — *Rectus.*

Obliquus, cujus extremitates sunt in duabus lineis [illegible] parallelis. Fit vel a *Medio Recedens*, [illegible] extremitas superior in processibus lateralibus est, [illegible] est pars *Spinae* inferior, vel ad *Medium Vergens*, [illegible] extremitas [illegible] in processibus lateralibus est. Huc spectat *Longi* in collo secunda pars, & omnes [illegible] secunda ad os sacrum usque immediate vertebris [illegible] — *Obliquus.*

 inceda

FIGURÆ EXPLICATIO.

Aliquot musculos, qui a posteriore corporis parte primum se offerunt, tradit.

a a. *Musculi capitis Complexi.*
B B. *Splenij.*
C C. *Levator scapulæ utrinque.*
D. *Trapezius seu Cucullaris e situ.*
E. *Supraspinatus.*
F. *Infraspinatus.*
G. *Rotundus major.*
L. *Rotundus minor.*
I I. *Rhomboides.*
K K. *Dorsi latissimus.*
L. *Serratus posticus superior.*
M. *Serratus posticus inferior.*
N N. *Lumbi longissimus.*
O O. *Sacrolumbus.*
P. *Quadratus.*
Q. *Sacer dorsi musculus.*
R. *Brachium extendens musculus Longus dictus.*
S. *Alter extendens Brevis.*
T T. *Submajor brachij alter, Authori nostro, primum vide Tab.* [illegible]
V. *Carpi extensor primus aut bicornis, hic dependens.*
W. *Carpi extensor alter.*
X X x x. *Extensores bini digitorum.*
Z. *Apophysis humeri externa.*
Δ. *Deltoides.*
Γ. *Brachiæus.*

Sequentes Characteres inferiorum artuum musculos demonstrant.

A. *Glutæus major extra situm.*
B. *Glutæus medius in situ.*
C. *Pyriformis dictus musculus.*
D. *Obturator internus, alias Marsupialis.*
E E. *Flectens tibiam Biceps.*
F F. *Semimembranosus.*
G g. *Seminervosus.*
H h. *Gracilis.*
I I i. *Tricipitis femoris aversi.*
K. *Vastus externus.*
a a a. *Triceps in dextro latere.*
L L. *Popliteus.*
M M. *Gastrocnemij duo, qui in sinistro latere in situ, in dextro e situ remoti sunt.*
N N. *Soleus musculus.*
O. *Plantaris.*

OSPEDALE
[illegible]
CONSOLAZIONE
BIBLIOTECA

accumbunt, quibus *Semispinati* nomen recte imponitur. Fere omnibus his commune esse *Stenonius* monet, ut una vertebra superior à pluribus vertebris inferioribus musculos accipiat; & una vertebra inferior in plures superiores vertebras musculos mittat.

Cap. VIII.

DE MUSCULIS CUBITI, ET RADII.

Musculi Cubiti ordine sectionis arbitrario sequuntur. Sectorem tamen monemus, non demonstrandos [illegible] post hos [illegible], [illegible] omnium [illegible], post [illegible] [illegible], digitorum, pollicis & carpi, quia horum musculi [illegible] [illegible] [illegible], cum [illegible] musculorum [illegible] [illegible] [illegible] incertiuntur. Alioqui [illegible] demonstratio [illegible] musculorum cubiti & Radii potest proxime excipere brachium, ordine cuivis arbitrario. *Ordo in sectione.*

Musculi cubiti *quatuor* sunt, & Radii totidem.

Duo cubiti flexores sunt, ut *biceps* & *brachiaus*. Duo extensores, *longus* & *brevis*.

Du[illegible] [illegible] sunt, *rotundus* & *quadratus*, & [illegible] [illegible], *longior* & *brevior*.

[illegible] [illegible] est flexio & extensio [illegible] [illegible] [illegible].

[illegible] *tantum* [illegible] [illegible], & teres, [illegible] [illegible] *Inferitur* vero [illegible] [illegible] brachii internam sedem occupat. Hu[illegible], [illegible] venae sectione caveri debet.

[illegible] ex [illegible] componi [illegible], ita [illegible] [illegible], ut [illegible] inferiores unum fere [illegible] [illegible] carnes recond[illegible], tendines vero superiores [illegible] intra se contineant. De [illegible] idem *Stenonius*, [illegible] longitudo, ut [illegible] tales [illegible] semper obtusos cum oppositis tendinibus constituant angulos.

Secundus sub hoc latens, ipsique ossi superstratus brevior Brachiaeus, totus carnosus, praecedente minor, *oritur* ab osse brachii medio & anterius *inseritur* [illegible] cubiti, [illegible] principium commune, articulique ligamentum.

Tertius Extendens primus est & Longus, *oritur* duplici

FIGURARUM EXPLICATIO.

Ex *Stenonio.*

FIGURA I.

Gastrocnem[illegible].

A. *Extremitas superior.*
H. *Extremitas inferior.*
G D. *Superficies inferior.*
A B F E, H G C D. *Trapezia tendinum.*
B F G C. *Parallelogrammum carneum.*

FIGURA II.

Bicipitis muscu[illegible]

E H. *Est planum ordinum.*
E. *Extremitas superior.*
H. *Inferior.*

FIGURA III.

Muscul. Semimembranos.

A B F E. *Superioris tendinis trapezium.*
H G C D. *Inferioris trapezium.*

pl[illegible] principio à scapulæ costa humeroque, *finitur* carne [illegible] in olecranum.

Quartus EXTENDENS secundus & BREVIS [illegible] [illegible] cervice posteriori [illegible] [illegible] & [illegible] [illegible] occupat, *definit* vers[illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] *Casserio*, tertius extensorum [illegible] est, [illegible] [illegible] [illegible] [illegible] [illegible] Anatomic[illegible] [illegible] *Vesling.* *Anatomicus* [illegible] [illegible] [illegible] *Brachii* [illegible] [illegible] [illegible] carno[illegible] [illegible] & [illegible] [illegible] *Pollicis* [illegible] *Pollex*

TABULA III.

posteriori extremitate humeri, iuxta finem [illegible] & [illegible] [illegible] & [illegible] praetergressus, [illegible] posteriore [illegible] parte laterali non longe [illegible], nempe transversim [illegible] *[illegible]*.

Sextum praeterea, Extendentem qua [illegible] *Galenus* [illegible] nempe molem carneam, duobus [illegible] [illegible], quem *Riolanus* vocat *Brachiaeum externum* [illegible] [illegible] flectent [illegible] differentiam, quia brachio [illegible] [illegible], duobus aliis primus subjicitur.

Primus musculus RADII ROTUNDUS, aliis Teres [illegible] apophysi interna brachii, [illegible] [illegible] obliquo in radium fere medium cessat, [illegible] fine & [illegible] membranoso quoque, quem versus [illegible] pergere, [illegible] radii, externo [illegible] *Spigelius*.

Secundus QUADRATUS ab imo cubito [illegible] [illegible] carnosus [illegible] [illegible] supra ligamentum illud, radij cubitique [illegible] vinculum, progreditur. Hi manus pronatores sunt.

Tertius est SUPINATOR PRIMUS, ab [illegible] brachii parte [illegible] in anteriorem radij partem [illegible] *[illegible]* [illegible] fine.

Quartus est SUPINATOR ALTER, ab apophysi externa brachii [illegible] enascens, [illegible] totus carnosus progreditur in medium fere radium.

Inter musculos Radij invenit *Casserius* aliquando duos parvulos, [illegible] & opposito modo incedentes atque [illegible] pronum & [illegible] [illegible] moventes. Eos tamen non invenit [illegible] [illegible] loco vidi in musculoso homine, [illegible] musculum *Triangularem* a summo cubito ortum & [illegible] [illegible] medium [illegible] carnoso fine & angusto [illegible] [illegible] [illegible] quos omnes ante [illegible] [illegible] [illegible]. Quo hic naturae instituto constitutus sit, [illegible] nescio.

C A P.

CAP. IX.

DE MUSCULIS CARPI, ET DIGITORUM.

AD CARPI & volæ *musculos* refertur PALMARIS, ab apophysi interna brachii ortus rotundo tendineoque principio, [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] videtur [illegible] volæ com[illegible] contiguus est [illegible].

H[illegible] adduntur *Membranam carnosam*, quæ contra [illegible] volam explicet, item *carneum quadratum* a membrana illa natum [illegible] musculos [illegible], [illegible] extensa vola [illegible] aperta, ut [illegible] ut cavum red[illegible], quod *Riolano* placet.

Musculi CARPI *quatuor* sunt, *duo flexores* & interni, *duo extensores* & externi.

Primus flexor Cubiteus internus Riolano, cui nomina hæc debemus, a brachii interna apophysi *ortus*, [illegible] ad quartum os Carpi [illegible] *implantatur*.

Alter, Radiæus internus, quia per radium exporrigitur, ex eodem *principio desinit* in os metacarpi primum, sub [illegible].

Primus extensor Radiæus externus a brachii externa apophysi [illegible] principio [illegible] Radio [illegible] [illegible] *desinit* [illegible], ad os metacarpi primum & secundum.

Alter, Cubiteus externus eodem principio, per cubiti longitudinem [illegible] tendine abit in os quartum Metacarpi, sub minimo digito.

DIGITI, *flectuntur, extenduntur, adducuntur & abducuntur*.

Flectunt sublimis & profundus.

Ille ab interna brachii apophysi, antequam ad carpum [illegible], in quatuor finditur [illegible] ligamento instar annuli [illegible] in digitorum inseruntur interno [illegible] [illegible] concamerationes, quam sequentis musculi tendines transeunt, unde *Perforatus* dicitur.

Hic

FIGURÆ EXPLICATIO.

Remotis adjacentibus aut superstratis, quos a postica [illegible] corporis parte conspicuos musculos [illegible]

a a. *Musculi capitis Recti minores dicti.*
b b. *Recti majores.*
c c. *Obliqui superiores.*
d d. *Obliqui inferiores.*
α. *Levator scapulæ.*
β. *Rotundus minor.*
δ. *Serratus major.*
E E. *Musculi Colli Transversales dicti.*
F F F F. *Spinatus.*
G G. *Sacrolumbus.*
H H. *Dorsi longissimus in situ.*
I I. *Idem extra situm, ut appareat.*
K. *Dorsi musculus semispinatus.*
L L. *Sacer dorsi musculus.*
M M. *Musculi dorsi Quadrati.*
N. *Supinator brachii primus.*
O. *Carpi extensor primus, seu bicornis extra situm.*
P. *Carpi extensor alter.*
Q Q. *Bini digitorum extensores extra situm.*
R. *Indicis extensor.*
S S. *Pollicem extendentes duo musculi.*

Sequentes characteres inferiorum artuum musculos designant.

A. *Glutæus medius extra situm.*
B. *Glutæus minimus in situ.*
C C. *Idem extra situm.*
D D. *Pyriformis in utroque latere.*
E. *Marsupialis seu obturator internus.*
F. *Idem in sinistro latere extra situm, ubi [illegible].*
G. *Marsupium eleganter exprimitur.*
H H. *Obturator externus.*
K. *Quadrigeminorum quartus, Auctori Quadratus.*
L L. *Flectens Tibiam Biceps.*
M M. *Semimembranosus.*
N N. *Seminervosus.*
O O. *Gracilis.*
Δ. *Triceps.*
I. *Crureus.*
P P. *Tibiæus posticus.*
Q Q. *Flexor digitorum pedis Magnus vocatus, alias Perforans.*
R. *Flexor minor seu Perforatus.*
S S S. *Flexor pollicis.*
t. *Pollicis abductor.*
u. *Ejusdem adductor.*
x. *Minimi digiti adductor.*
z. *Carnea massa in planta pedis.*

Hi profundi sublimis & sublimis tertio internodio per fissuras perforati tendines inferuntur. Unde *Perforans* vocant. Circa tendines hos digitorum notandum 1. eleganti naturæ artificio *fissuram* eam longam eamque esse insculptam, ut per hanc tertii internodii ligamenta velut per foramen transeant. 2. Vaginam membranosam amplecti eosdem tendines [illegible] & co[illegible] , ne in flexione a [illegible] loco [illegible]. 3. Atque illam membranosam robustam in carpo colligare omnes tendines internos externosque, qui [illegible] sua sede moventur.

EXTENSORES pro uno numerat *Iacobus Sylvius*, & digitorum tensorem vocat, cum tamen eorum varient & ortus & insertiones. Bini sunt, & *oriuntur* fere ab apophysi humeri externa, & annulari vinculo, tendinibus [illegible] prius colligati in secundum & tertium articulum contortius *inferuntur*.

ADDUCUNT digitos musculi quatuor, *lumbricales* seu *vermiculares* dicti a figura & exilitate. *Oriuntur* a tendinibus profundi musculi, & secundum latera digitorum proter[illegible] oblique ad tertium internodium feruntur. *Spigelius* & *Veslingius* tantum in primum internodium tendine tereti inseri volunt, quos veros internodium deprehendi, tendine [illegible] membranis internodii immixto.

ABDUCTORES interossei sunt sex, in spatiis metacarpi, tres exteriores & tres interiores, qui cum vermicularibus [illegible] per latera exteriora & interiora digitorum succedunt [illegible] ad tertia internodia extenduntur, extensionis quandam [illegible]. *Externi* palmæ incumbunt, *interni* volæ inter metacarpi ossa.

Musculi POLLICEM *flectentes* duo sunt.

Primus a superiore radii parte in tertium articulum inseritur.

Alter ab osse carpi, sub pollice, in medium pollicem præcedentem totus subjicitur.

Extendentes duo sunt à cubito orti. *Primus* ad tertium internodium pertingit. *Alter* ad secundum reliquosque pluribus tendinibus, modo simplici, modo duobus, modo tribus.

Adducentes tres, duo à metacarpio orti, & tertius ab osse metacarpi indicem spectante, quem *Riolanus* vocat *Antithenar*, sicut alterum priorum adducentium *Hypothenar* [illegible].

Abducentes sunt tres ἀνώνυμοι, nisi quod unus ex illis *Thenar* vocatur eidem.

Index [illegible] habet [illegible] [illegible], [illegible] *Extensor* [illegible] *Abductor* [illegible] [illegible] [illegible] tempore [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].

A[illegible] [illegible] *Extensor*, quem *Riolanus* [illegible] *Indicatorem*, & *Abductor*, [illegible] [illegible] [illegible] Ab[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] & externum, *desinitque* [illegible] [illegible] in internodium Indicis secundum.

Minimi digiti [illegible] [illegible] duo sunt, *Abductor* & *Extensor* [illegible] [illegible] [illegible] potest, in [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] *ortus*, in articulum [illegible] [illegible] [illegible] [illegible] latus *desinit*. *Aquapendens* [illegible] [illegible] [illegible] posteriores [illegible] [illegible] [illegible] [illegible] nos ab [illegible] [illegible]. *Extensor* prope [illegible] *Riolano* [illegible] no exacte separatus, à radii parte superna ortus, perque [illegible] [illegible] & [illegible] delatus, in [illegible] externus duplici tendine *inseritur*.

CAP. X.

DE PEDE IN GENERE.

Pes quid? PEs dicitur totum id, quod est à natibus ad digitorum pedis extremitates, [illegible] Manus pes, vel [illegible], & *dividitur* in [illegible] partes, [illegible] [illegible] [illegible] [illegible] comparatione, [illegible] *femur*, *tibiam*, & *parvum pedem*.

Pes minor [illegible] [illegible] in *pedium*, *metapedium* & *digitos*.

Usus pedis vel [illegible] est, ut sit ambulationis instrumentum [illegible] [illegible] per [illegible] & [illegible]. Nam [illegible] [illegible] in terram [illegible], alterum movemus & circumferimus [illegible] [illegible] terram cadamus pes [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. *Femur* ergo [illegible] totius corporis [illegible] [illegible] [illegible] pedis, quam vel promovet vel [illegible] femoris [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. At [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ad digitos [illegible], [illegible] vero [illegible] parvi pedis [illegible] [illegible] absolvunt. [illegible] pedis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] & [illegible] [illegible] facta est, ut [illegible] [illegible].

Hunc motum [illegible] [illegible] [illegible] [illegible] femoris, tibiæ & pedum. Itaque de musculis universi pedis agendum.

Cap. XI.

DE MUSCULIS FEMORIS.

Femur *flectitur* à duobus musculis.

I. [illegible] est [illegible] *ψόας*, vel musculus lumbaris, à lumbarium vertebris superioribus *oritur* [illegible], & *inseritur* in trochantera parvum, ante [illegible] valido [illegible].

A[illegible] musculum *Psoas* [illegible] robusto & [illegible] Hafniæ 16[illegible] quem *Riolanus* [illegible] vidit. Ex parte majori [illegible] excre[illegible] vertebris. *Latitudine* [illegible], totiusque musculi latitudo tres digitos [illegible] æquabat. *Inserebatur* carnosus in superio[illegible] ossis Ilii marginem posteriorem, ubi [illegible] est ortus. [illegible] 1652 [illegible] principio carnoso sed angusto, *fine* in longum tendinem [illegible] esse [illegible] ut [illegible] majori [illegible] os Ilii [illegible] immobile, vel sane ut fulc[illegible] Ilii [illegible] homine lumbis & femore [illegible]. Testis [illegible] est *Michael Lyserus* in [illegible], qui hunc quoque in Cercopi[illegible] annotavit, [illegible] alterum *ψόαν*.

Secundus Iliacus, ibidem *inseritur* tendine, qui præ[illegible] tendini commiscetur, *oritur* à tota cavitate interna ossis Ilii tenui carnosoque initio.

Extendunt femur tres musculi natium Glutæi dicti.

I. Major, externus & amplissimus, à Coccyge, spina ossis Ilii ossique sacro, in os femoris sub trochantere magno definens.

II. Medius est in situ & magnitudine. Exoritur ab [illegible] spinæ anteriori fere, in trochantera magnum lato validoque tendine definens.

III. Minimus [illegible] sub medio latet, oritur à dorso ossis Ilii [illegible], lato validoque tendine in trochantera [illegible].

Hi tres [illegible] carnosam molem constituunt.

Adducunt & circumagunt femur intro tres, qui à variis [illegible], & Triceps vocatur, ob triplex [illegible]. Ab [illegible] summa ossis pubis. [illegible]. Ab ima pubis com[illegible]. 3. Ab ejusdem ossis pubis media parte. *Inseritur* [illegible], interno femoris capiti prope poplitem [illegible]

 tey

tendine, vel lineæ femoris asperæ 2. parti superæ, 3. parti inferæ, ad minorem trochanterem. *Riolanus* [illegible] insertiones. [illegible] eundem tendine [illegible] ad extremam [illegible] producit, tertium intra cervicem femoris.

His addunt *Spigelius* & *Veslingius Lividum*, ad [illegible] pubis prope cartilaginum commissuram ortum, & [illegible] brevi femoris lateri interno implantatum, sed nunc [illegible] portionem esse concedunt ipsi. Sed [illegible] *flexores* musculos minus bene. *Riolanus* vero *Pectineum* [illegible] & pro flexore habet, sed agnoscit pro [illegible] & juxta [illegible] quem cum *Fallopio* [illegible] los [illegible], & [illegible] totidem habet [illegible].

Adducunt & circumagunt femur sex musculi: *quadrigemini*, & *duo obturatores*.

QUADRIGEMINI hi fere similes sunt & parvi, qui transversim positi, ab externa ossis sacri parte inferiore & Ischii tubere, appendiceque exorti [illegible] *inter* spatium quod inter utrumque trochantera est. [illegible] mus quadrigeminus nomen *Pyriformis* obtinuit à piri [illegible] figura, & *Iliaci* externi [illegible]. Reliqui nomine carent nisi quartus, qui *Quadratus*.

OBTURATORES occupant foramen inter os pubis & Ischii patens. Suntque externus vel internus [illegible] externo foramini ossis pubis, hic ab interno [illegible] & [illegible] trochantera terminatur. Internus *Bursalis* appellari potest, quia tendines quadruplices [illegible] carno[illegible] marsupium, à tertio & quarto quadrigemino [illegible] formatum abscondit. *Riolanus* ex [illegible] pro duobus [illegible] musculos, quos *quadrigeminos* appellat. At [illegible] partes sine dilaceratione dividi non potest [illegible] *Marchettus* [illegible] massa carnea esse debuit, ut in motu esset validior.

CAP. XII.

DE MUSCULIS TIBIÆ.

FLECTUNT TIBIAM quatuor musculi posteriores. Unus duo habet *capita*, *Biceps* [illegible] *supremum* à [illegible] ossis pubis, *secundum* à [illegible] femoris parte, & utrumque uno tendine, sed [illegible] medio carnosa substantia, in posteriorem tibiæ partem *inseritur*.

Secundus Semimembranosus ab Ischii tuber[illegible] [illegible] latus internum versus posteriora *inseritur*. Hujus tamen

cam

tam in eo distinguit *Semitendinosus* à fabrica Gasterocnemii, quod superioris tendinis trapezium, inferioris trapezio [illegible] non sit, cum fibræ motrices æqualiter non sint [illegible].

Tertius *Semimembranosus* [illegible] principium, eundemque [illegible] [illegible], nisi quod per posteriora nonnihil antrorsum [illegible], antequam ad tibiæ interiora hæreat. Huius cum [illegible] hæc est ex *Stenonio*, quod unus musculi [illegible] cum alterius musculi inferiori tendine [illegible], ut utriusque musculi carnes a mutuo contactu per hoc intersepimentum tendinosum separatæ maneant.

Quartus *Gracilis*, ibidem inseritur, oritur vero ex commissura ossis pubis.

EXTENDUNT *quatuor*.

Primus *rectus* à spina externa & inferna Ilium oritur, [illegible] acuto.

Secundus & tertius sunt vasti duo externus a radice totius trochanteris magni, & cruceæ ossi subjecto. Internus à trochantere parvo, utrinque ad latus *recti* descenduntur.

Quartus *Cruræus*, ossi cruris affixus est, quemadmodum brachiæus brachio.

Hi quatuor musculi in unum tendinem *firmantur*, qui [illegible] ipsam amplectitur, hicque in tibiæ principium anterius inseritur, ab ipsis productum est.

ADDUCUNT intro duo.

Primus *longus*, [illegible] alis seu sartorius, inter flexores *Spigelio* & *Veslingio*, quo sartores [illegible] [illegible] omnium musculorum fere longissimus, ab Ilii spina anteriore *exortus*, obliqueque in tibiam internam & anticam *descendit*.

Alter *popliteus*, ab inferiore & externo femoris tuberculo, in interiorem tibiæ partem superioremque obliquè quadratus *inseritur*.

ABDUCTOR unus est, qui membranosus & *fascia lata* dicitur. *Oritur* carnosus a spina ossis Ilium, & oblique in tibiam exteriorem *fertur*, [illegible] & longissimo, omnes fere femoris musculos investit.

CAP. XIII.

DE MUSCULIS PEDUM.

FLectitur Pes & extenditur. FLECTUNT [illegible] sunt duo.

Primus tibiæus anticus dicitur, *Spigelio* catenæ musculus, quia ejus [illegible] tendine [illegible] catenam gestant, [illegible] a superno tibiæ processu *ortus*, *inseritur* in os pedis,

[illegible] pollicem, tendine ad finem [illegible].

Alter *[illegible] biceps*, [illegible] habent, uno capite vel principio promanante a [illegible] [illegible], altero e [illegible] [illegible] ex [illegible] [illegible] [illegible] digitos delatum, & majorem [illegible] [illegible] incedentem, & insertum in os pedis [illegible] regione pollicis.

Extendunt retrorsum postrei quatuor, *Duo gemelli*, [illegible] externus [illegible], constituunt *Gastrocnemion* [illegible] & externo [illegible] [illegible]. [illegible], tendines extremi [illegible] habent, [illegible] intermedia [illegible] [illegible] Vesalius [illegible] *Tertius solaeus* [illegible] [illegible], a [illegible] [illegible] [illegible]. Tres hi [illegible] [illegible] crassissimum & [illegible] *tendinem* [illegible] [illegible] [illegible] solent [illegible] ra. *Hippocrates* vocavit *chordam*, ubi ex [illegible] [illegible] [illegible] convulsiones.

[illegible] *plantaris* [illegible] & [illegible] palmari [illegible] gracilis [illegible] [illegible] longum [illegible], [illegible] [illegible] femoris [illegible], sub poplite *exoritur*, & in [illegible] *inseritur*, [illegible] [illegible] quamquam [illegible] [illegible] [illegible]. Deesse aliquando [illegible] *Veslingius*.

[illegible] popliteus [illegible] [illegible] obliquo [illegible] [illegible] numeratos *Spigelio* inter extensores *Riolanus*.

CAP. XIV.

DE MUSCULIS DIGITORUM

UT manus, ita pedis DIGITOS musculi movent.

FLECTUNT duo musculi, *magnus* [illegible] respondet, *ortus* à superna tibiae epiphysi, & sub planta in quatuor tendines [illegible], [illegible] minorem [illegible] [illegible] [illegible] quatuor digitorum [illegible] *implantantur*. *Minor* [illegible] respondens, in planta pedis [illegible], [illegible] in secundam quatuor digitorum [illegible] [illegible] tertiam, [illegible], antequam perveniat [illegible] [illegible] musculi tendines [illegible] [illegible] [illegible] perforans [illegible].

Quatuor digitos pedis unus *extendit* musculus, non [illegible] [illegible] divisus, *ortus* à summa & externa tibia, quatuor [illegible] tendines insertos in secundum & tertium internodium.

A [illegible] in manu re[illegible] [illegible] Rarissime deo desunt.

A [illegible] *interossei* [illegible] & [illegible] Externi, vel Interni [illegible] ad pollicem [illegible].

[illegible] peculiares pollicis [illegible].

I [illegible] a fibula superna prodeunte & [illegible] *Riolano* [illegible].

F[illegible] alterum, a media tibia, alius ab externo tibiæ [illegible] a fibula, producunt, qui sæpe in duos tendines dividitur.

A[illegible] pollicis [illegible] intus [illegible].

A[illegible] parte [illegible] *osse &* [illegible] pollicis [illegible] *interna* [illegible].

Nobis autem *reperitur musculus* [illegible], cujus primus inventor est *Casserius* [illegible] *transversalem* [illegible] [illegible] adducere in pollicem [illegible], quem usum natura videtur intendisse.

[illegible] nervoso [illegible] & [illegible] transversim defertur supra [illegible] [illegible] magni [illegible] *[illegible]*.

[illegible] & [illegible] corpore [illegible], & [illegible] firmare possit.

M[illegible] digiti *abductor* [illegible] externo pedis [illegible] & [illegible] parte [illegible] latere externo primi [illegible].

[illegible] *Flexorem* observavi, longum, [illegible] *externum*, duobusque tendinibus cir[illegible]. *Tendinem* [illegible] *Rhodius* [illegible].

[illegible] planta pedis denique *Carnea massa*. [illegible] [illegible] &

[illegible]

ANATOMIÆ BARTHOLINIANÆ LIBELLUS I.

DE VENIS,

Respondens LIBRO I. DE INFIMO VENTRE.

S[illegible] in proœmio hujus operis Anatomic[illegible] *quatuor Libros & quatuor Libellos* pro[illegible] Quatuor *Libros* de Cavitat[illegible] Quatuor *Libellos* [illegible] Nervis, & Ossibus. [illegible] Venas [illegible] *corde* [illegible] Arterias [illegible] *medulla* [illegible] Nervi [illegible] *accubitus* [illegible] Et talem venarum totius corporis comp[illegible] separatam habet *Guilielmus Fabricius* [illegible] Chirurgus [illegible] compages [illegible] *Ad* [illegible] *Iohannem* [illegible] & quatuor [illegible] D.D *Henricum* [illegible] Medico [illegible] *Bovrmann.* [illegible] confecta [illegible]

A[illegible] nostri M[illegible] & Arteriæ & Nervi [illegible]

[illegible] a [illegible] partes [illegible] cum sanguine [illegible] meatuo al quo principali in varias corporis partes [illegible].

CAP. I.

DE VENA IN GENERE.

VENA est [illegible] [illegible] oblongum, instar [illegible] cavum [illegible] vehendo [illegible] & [illegible] naturali, vel revehendo idoneum. *Vena quid?*

[illegible] *Veteres* [illegible] affectus [illegible], arterias vocarunt pulsatiles venas, venas vero non pulsantes [illegible] venam [illegible] aortam.

[illegible] Venae est vas [illegible] propria.

MATERIA *Hippocrati* est [illegible] & [illegible] vel ex *Harvejo* [illegible] Et hoc est principium [illegible].

A *principium* [illegible] spectat [illegible] *unde* oriuntur [illegible] differentia [illegible] certum est [illegible] opinionibus [illegible] *antiqui* [illegible], qui vel ab *oculis*, vel *ventriculo*, vel *cerebro* venas derivarunt, circa *Cor* & *Hepar* plerique [illegible], tam antiqui quam recentiores & vel huic vel [illegible], vel [illegible]. De [illegible] nos breviter.

[illegible] Cor esse venarum principium *Hippocrates* docet [illegible] *Aristoteles*, [illegible] & Medici. [illegible] *Hofmannus*, *Highmorus*, *Harveus*, *Lindanus* defenderunt [illegible] Tanta est [illegible] *Venarū principium an Cor.*

[illegible] separari non [illegible] facile separatur. [illegible] Dempta [illegible] cava [illegible] ab hepate. [illegible] vero & [illegible] cava tanquam [illegible] cor & pulmones [illegible] reperitur, quod [illegible] est cava cum vena [illegible] sanguinis [illegible] princeps [illegible] *Vel Hepar.*

[illegible] *Hepata* [illegible] & [illegible]

[illegible] *Casp. Bartholin* [illegible]

[illegible]

seu purificationem agnoscentes. Ergo [illegible] esse venarum principium. 2. Ab epate disse[illegible] cor, non a corde immediate ad epar. Nam ex cor[illegible] ad epar [illegible] dis ventriculo; ex quo volant venas ori[illegible] [illegible] sed epar, quod cava etiam attingit [illegible] sunt in toto corpore. At secundum *Aristotelem* o[illegible] debent esse cordi continuae. Dices: Venam arte[illegible] [illegible] continua. 5. In foetu umbilicalis vena cum [illegible] in cor. 6. Si a corde oriuntur venae [illegible] [illegible]

III. Nul[illegible] *Spigelius* [illegible] [illegible] capium. 3. Nulla pars ante venas generatur. 4. [illegible] hepati [illegible] connectuntur ven[illegible].

IV. [illegible] [illegible] Haec [illegible] *Aristotelem* venarum paria à sinc[illegible] pite, circa aures, a [illegible] ribus, à parte priore capitis de sede oculorum, [illegible] *Galenum* à cerebro, & fontes venarum a cap[illegible] *Hippocrates*, si *radicationem* consideremus & [illegible] [illegible] exceptum, ita quoque dici posse omn[illegible].

[illegible] *Finis* vel [illegible]

I. Ex antiq[illegible] orum opini[illegible] cum [illegible]

[illegible] ab epate in [illegible] partes [illegible] adducere.

Sed alter [illegible] natura posterioribus [illegible] [illegible]

[illegible]

[illegible] in corde imprimendo destinatur. [illegible] accenui debet, & idoneâ figurâ, quam rhom[illegible] [illegible] *[illegible]* [illegible] *[illegible]*, [illegible] venæ, sive immediate [illegible] cava, idque vel à [illegible] [illegible] arteriis & arteriis assumptum.

A [illegible] [illegible] experimentum & Ratio.

1. In Venæsectione ligato supra cubitum brachio [illegible] nullus tumor, nec, si aperias venam [illegible] effluet, [illegible] quod contra *Scribonii Largi* auctoritatem [illegible] paucus, vel si anastomoses [illegible] locis sint arteriæ cum vena. [illegible] [illegible] Si pariter digito locum intra vulnus com[illegible] sanguis, illo remoto sursum [illegible] [illegible]

2. Sine Venæsectione, digito compressæ [illegible] [illegible] manus in manu seu calida [illegible] [illegible] Si [illegible] & [illegible] manus pedesve frigidæ seu aquæ [illegible] [illegible] refrigerari à frigido sanguine [illegible] [illegible] Nec aliter [illegible] [illegible] pocula juvant, aut venenum [illegible] [illegible]

3. In suspensis rubet caput faciesque [illegible] [illegible] recursum ad cor, quemadmodum [illegible] [illegible] superiora in capite, [illegible] Soluta autem in cadavere catena [illegible]

latum tumor niborque faciei, nisi si in minimis tam [illegible] [illegible] fluere nequeat.

5. In sectionibus vivorum animalium res clarissima [illegible] à corde remotior, ea parte flaccida cernitur [illegible] [illegible] extremis est vicina.

6. Elevatam venam in vivis filoque constrictam si pertundas, citra ligaturam copiosus stillat sanguis [illegible] [illegible] succedet, et anni prorsus differentur venae [illegible] [illegible] periculum saepe cum magno Vidius [illegible] & Harvejus non ignoravit.

7. Valvulae venarum huc conspirant, quae [illegible] [illegible] omnes corresp[illegible] pan[illegible] sic longe [illegible] tam à minimis venulis ad majores, & ex hoc ad cor [illegible] [illegible] A corde [illegible] venis [illegible] [illegible] [illegible] & [illegible] [illegible] convenit.

8. [illegible] Cordis [illegible] pulmones [illegible] Corde est [illegible] [illegible] continuo [illegible] [illegible] [illegible] [illegible] valvulas [illegible] [illegible] continuo [illegible] [illegible] ad cor [illegible] circulationem. [illegible] apparuit [illegible] [illegible] vestigia, [illegible] lib. [illegible] de Luce Animal. & [illegible] [illegible] Riolanus & Schneiderus deducunt [illegible] [illegible] Caesalpinus [illegible] [illegible] l. 5. Quaest. Perip. 4. & l. 2. Quaest. Med. 17. Sed clarius nostro seculo innotuit Harvejo Anglo, cui primae inventionis [illegible] & per varia argumenta & experimenta [illegible] prima [illegible] [illegible] [illegible] P. [illegible] [illegible] Harvejo [illegible] Sarpam Harvejo [illegible] [illegible] Harvejo accepit, fam [illegible] unde cum hasce sanguinis motu cogitationes illi communicasset, Sarpa in schedis tenui[illegible] more suo, posterisque ausum dum tamen sub[illegible]. At Harvejo omnes applaudunt, Circulationis Auctori.

Primo

[illegible] fit, [illegible] canal [illegible] ac reducere ad cor sanguinem. *Secundary* esse possunt [illegible]

II. Eundem sanguinem nonnihil vel præparare, [illegible] vel perficere, ut venæ cavæ [illegible] non [illegible] vasis sed caloris ipsius sanguinis virtute, sicut mustum [illegible] & poma aliaque fructus ab arbore avulsi paulatim [illegible] maturescunt. Vid. Contr. Anat. C. Bartholini Patr. *Secundarius.*

III. Sanguinem custodire, sicut locus proprius locatū conservat, quem [illegible] in celeri transitu non potest, [illegible] terminus [illegible] sanguis extravenatus, seu extra locum naturale suum videlicet, venas & arterias fusus, concrescit & putrescit [illegible] venas & arterias [illegible] modo convenientes [illegible] sanguinem [illegible] modo a [illegible] quod apud [illegible] bonus [illegible]

IV. A[illegible] *[illegible]* [illegible] & [illegible] locis, qui omnino [illegible] refutavit C. Bartholinus [illegible], hoc *Afellius.*

V. [illegible] in vasis sanguinem generari [illegible] probat ex pulli fabrica, in qua ante rem quā cor [illegible] sanguis existit. Rationibus eum defendit *Glisson* [illegible] *Mearan* [illegible] *Lower* [illegible] [illegible] cor [illegible] [illegible] & partes [illegible] priores esse debent suo nutri[illegible] *Mearus* [illegible] in perpetuo [illegible] & ideo [illegible] faceret, ut [illegible] habeat, nec [illegible] 4. Chylus sanguini non miscetur, [illegible] ex qua statim ad cor defertur. 5. Purpura [illegible] chylus, sed a corde [illegible] motus, qui [illegible] prope cor [illegible] observatur, non a sanguine ipso [illegible] [illegible] motu dependet.

VI. Cum sanguinem circulando ad cor deducere contingat, [illegible] vel pure [illegible], apertis venis infusa, per *Chirurgiam infusoriam* de qua a se inventa *Fr. Dan. Major* ex[illegible] *Elsholtius* sibi tribuit. *Fracassatus* Flo[illegible] a se reperta testatur, quæ in morbis [illegible] quæ exaltatas sanguinis partes præcipitat, vel fixa, *Chirurgia infusoria.*

[illegible] *Liberum* [illegible] Qui quis primus fuerit [illegible] esse [illegible] consistendo [illegible] ex [illegible] pro [illegible] vel [illegible] & [illegible]

Forma venarum ex accidentibus oritur varia.

Figura est [illegible] vel [illegible].

Figura, Magnitudo.

Magnitudo variat. Magna enim venæ [illegible] principio primario [illegible] perpet[illegible] cum multum substantiæ defluat. & imprimis [illegible] nis totius corporis sanguis ad sinistram cor[illegible] ex dextro tra[illegible] propter [illegible] & [illegible] receptio & [illegible] magna fiat, ob sangu[illegible] rentibus ad cavam reducem. Ubi vero sub [illegible] partis [illegible] cerebro [illegible] venæ apparent; & in ossibus, ubi nunquam apparent [illegible] etiamsi animal magnum sit.

In parti[illegible] extremis minimæ sunt, & [illegible] venæ capillares [illegible] & [illegible] *mediate* [illegible] venas [illegible] percolatis & a [illegible] venæ [illegible] *Altera* est [illegible] *immediate*. Nam

Connexio.

Connexio [illegible] arteriis [illegible] vena [illegible] & [illegible] *Galeno* [illegible] vena [illegible] arteria tunicæ simplicitate separantur.

Anastomoses venarum.

Manifesto vero [illegible] *anastomoses* venarum & arteriarum [illegible] conspirationem [illegible] & [illegible] sanguine [illegible] Deinde ex secta vena in brachio vel manu [illegible]

FIGURÆ EXPLICATIO.

Anastomoses venæ Cavæ cum Porta in Hepate exhibet.

A. *Vena Cava truncus descendens.*
B. B. *Vena porta.*
C. *Vesicula fellea.*
d d d d d d. *Rami venæ Cavæ majoris per hepar disseminati.*
e e. *Rami venæ portæ.*
F F F F. *Anastomosis prima parallela venæ Cavæ cum vena Porta.*
g g. *Anastomosis secunda trunci cum trunco.*
h h. *Anastomosis tertia cruciata.*
i i. *Anastomosis quarta mixta.*
k k. *Anastomosis quinta obliqua seu angularis.*

universi corporis sanguis, qui [illegible] ari statim, neceſſario ex arteriis [illegible] ctis vicinis per anaſtomoſes proveniet. [illegible] hoc vidi [illegible] & art[illegible] brach[illegible] xatur [illegible] Ob [illegible] eam, quam poroſitates carnis non [illegible] cat & [illegible] ſanguine [illegible] *Carteſius* [illegible] [illegible] *poros* [illegible] p[illegible] atque [illegible] guinis ſimul effluat.

Dem[illegible] demonſtra[illegible] naturæ, cum *ana-stomoses* [illegible] & arteri[illegible] pulmo- [illegible] bus venæ arter[illegible] & art[illegible] venoſæ [illegible] pœ arteriæ. In th[illegible] dentium cum ven[illegible] Item venæ & arteriæ hypogaſtricæ cum mammariis ſub muſculis [illegible] dom[illegible] per anaſtomoſes junguntur. [illegible] ſunt anaſtomoſes venæ cavæ & portæ in epate, & [illegible] venarum atque arteriarum, [illegible] bus, umbilicalibus, extrem[illegible] & pe[illegible]

Anaſtomoſes venarū in Hepate. Sunt autem *anaſtomoſes* ſeu conjunctiones, [illegible] ratione neceſſariæ & oculis manifeſtæ, non tamen [illegible] *manifeſtæ* ſunt omnes *pert*[illegible] Per [illegible] bulo & humano d[illegible] a parte [illegible] tamen ſeu *ſtylo*, ſeu *cultro*, ſeu *ſuſe* anaſtomoſes venæ [illegible] & portæ parulas [illegible] ſed cœcas [illegible] quanquam quin apertæ ſint in vivis [illegible] latantur, dubitandum non ſit.

Varia genera. Varia genera [illegible] *parallela* [illegible] trem [illegible] ſecundo [illegible] trunci cum trunco, transverſo vaſe intercedente. [illegible] *Cruciata*, quando [illegible] vel [illegible] *obliqua* [illegible] [illegible] Anaſtomoſes [illegible] venas & arterias [illegible] vel [illegible] & [illegible]

Harvejus negat anaſtomoſes [illegible] inter venas po[illegible] cavam. In [illegible] tamen [illegible] obſervat [illegible] propa- gines venæ cavæ per gibbum hepatis perrepantes [illegible] habere [illegible] *particulis* cribroſas, [illegible] docuit

[illegible] reliquam [illegible] æquipollet anastomosi, monet [illegible] temporalibus arteriis in basin petreptantibus [illegible] quæ plexum choroidem [illegible] In [illegible] & [illegible] cantur. *Bello-* [illegible] vel venas [illegible] & arteriis copulam concedit *Malpighius.* [illegible] rete.

Inve[illegible] venæ aliquando *membrana* communis seu externa aliqua crassa, à vicinis partibus accepta, quando [illegible] & longiore via ducuntur, itaque extra [illegible] & [illegible] quando duris corporibus accum[illegible] Hinc [illegible] in infimo ventre, à renis & venas à peri[illegible] & [illegible] thorace à pleura. — *Cur venæ aliquibi vestiantur tunicis, aliæ non item?*

[illegible] vel musculo, non [illegible] alias prohiberetur prompta sanguinis [illegible] & [illegible] venæ depositio 4. non ita [illegible] difficilius [illegible] à partis nutritione imbiberet.

Venæ autem [illegible] *non sentiunt* [illegible] vicinos) ex se & sua natura non [illegible] non mentionem [illegible] *Fallopius* [illegible] Galenus 6. de [illegible] vel [illegible] & arteriæ, nequaquam sentiunt.

Cap. II.

De Venarum Substantia et Valvulis.

Substantia Venarum est membranosa, ut [illegible] & rursum concidere queant.

Tunicam unicam habent, quæ propria est [illegible] & tamen, quia per eam transitum [illegible]

[illegible] à nutritione partium, & impetuosam [illegible] [illegible] & [illegible] [illegible] [illegible]

Venæ an fibras habeant. Hanc putant aliqui triplici fibrarum [illegible] [illegible] [illegible] [illegible] [illegible] nias, quæ non magis adsunt quam in cotione [illegible] scerpendo venarum substantiam, nullæ apparent [illegible] Q[illegible] vero A[illegible] [illegible] tionem per fibras varias fieri, quum pot[illegible] [illegible] [illegible] contendunt *Harveius* & *Vesalius* [illegible] [illegible] cor suspicentur, [illegible] per [illegible] motum & [illegible] [illegible] fieri conce[illegible] [illegible] simo potest à sanguine succedente continuo ex partibus & arter[illegible] [illegible]. Attractionem [illegible] calore sine fibris deducunt alij.

Valvularum in venis quidam propo-suerunt [illegible] VALVULÆ [illegible] [illegible] *Aquapendens* [illegible] [illegible] *Paulus* Se[illegible] [illegible] [illegible] *Salomon Albertus, Archangelus, Piccolomineus,* & *Gaspardus Bauhinus*; vix vero casu attingit *Laurentius*.

Valvula venarum ut inventa datur Occasio inveniendi *Aquapendenti* [illegible] [illegible] [illegible] dibus [illegible] [illegible].

Varicum causa. A[illegible] [illegible] varicum modo.

Valvula venarum quæ [illegible] de valvulis venarum [illegible] [illegible] prop[illegible]

VALVULÆ [illegible] sunt tenuissimæ membranulæ, [illegible]

[illegible] vasorum cordis crassæ) in interna cavitate venarum & quædam quasi portunculæ venarum [illegible], [illegible] venarum [illegible], ubi [illegible] illæ mem[illegible]

[illegible] cavitate [illegible] vena [illegible] potissimum [illegible] Incipiunt statim sub ramorum exor[illegible] [illegible] ortibus. Repe[illegible] [illegible] Cepanica, in Bab[illegible] [illegible] [illegible] | *Cur in exortibus venarum non reperiuntur?*

[illegible] in diversis [illegible] valvulæ [illegible] [illegible] (in officio) internis, quia difficulte[illegible] [illegible] venas [illegible] extern[illegible] [illegible] [illegible] [illegible], nec metus ulli [illegible] [illegible] [illegible] pendentium partium & arteriæ [illegible]. In [illegible] valvulas cum *Harveo* reperiunt [illegible] [illegible] venam cavam & portam spectantes. In la[illegible] [illegible] [illegible] canes quoque [illegible] cruralium venarum his [illegible] [illegible], quia [illegible] & fieri semper [illegible] [illegible], quæ totius corporis diastole [illegible] incipiunt successive & perfic[illegible] nec [illegible] urget, deinde arteriæ per se [illegible] [illegible] [illegible] in arteria brachij [illegible] [illegible] potest, ut quod ad aortæ initium & [illegible] [illegible] sanguinem in eo [illegible] [illegible] regrediatur. In arteriis umbilicalibus va[illegible] [illegible] *Courtæus* & *Hobokenus*, [illegible] continuo cordis [illegible] [illegible] uterum. | *Cur non reperiantur in Cava trunco, jugularibus, venis externis partus, neque in arteriis?*

[illegible] in venis, at [illegible] venarum radices [illegible] clausæ, semper [illegible] [illegible]. Et notandum est in situ naturæ [illegible], quod [illegible] posteriorem habeant valvulæ, semper [illegible] sequen[illegible] [illegible] quemadmodum nodi in plantarum ramulis & caule, [illegible] per lineam rectam, vel ex eodem latere [illegible] [illegible] ne totus sanguis recta per vasis partem [illegible] [illegible] [illegible] valvulæ, quod superiores [illegible] [illegible]ærantur. Et si omnia ostiola ad eandem rectam [illegible] dispoſita, levis aut nulla facta fuisset mora [illegible] regressu.

Dein

FIGURÆ EXPLICATIO.

Fig. I. in ligato brachio venarum valvulas ostendit ex *Aquapendente*. Fig. 2. & 3. inversas crurales venas & cum iis valvulas exhibet.

A. *Venæ Cephalicæ ramus.*
B. B. *Pars venæ Basilicæ.*
D. *Vena Mediana.*
E. *Venæ Cephalicæ propago, cum vena Mediana fuit continuata.*
H H H H. *Nodi in vena à valvulis ibi sitis orti.*
I K. *Vena Cruralis una.*
L M. *Vena Cruralis altera.*
N N N. *Venarum valvula cruore repleta.*
O O O. *Venarum valvula vacua.*
Fig. V. *Basilica vena valvulas simplices sursum spectantes ostendit.*
Fig. V I. *In ramo crurali aperto duplices valvula conspiciuntur.*

Deinde per intervalla sitæ sunt, secundum vasis longitudinem, alibi duorum, trium, quatuor, quinque digitorum interstitiis, ut si sanguis retrorsum laberetur vi quodam coactus, superioresque valvulas prætergressus, in reliquis valvulis sequentibus incidens, sisteretur & impediretur.

Magnitudo. *Magnitudo.* Majores sunt, ubi vehementior a copia sanguinis recursus, & exinde majus vel partibus periculum, quæ nimium premerentur, vel cordi, quod sanguine destitueretur, erat timendum: ut in Basilica, & in Crurali ad inguina.

In quibus plures valvulæ? *Numerus* omnium variat, uti & intervalla. Sunt enim plures valvulæ in iis.

I. Qui melancholico sanguine abundant, nam ô contra pituitoso & tenui sanguine, quod utrumque humor & facile refluat, debilitat, & facilius pondere suo & tenuitate sua pullus refluat.

I I. In corporibus magnis aut magis carnosis, ideoque plures venas habentibus.

I I I. In iis qui vasa habent latissima.

I V. In iis qui longas rectasque venas habent: nam in obliquis impeditur nonnihil à recursu, ex obliquitate sanguis.

Nam

Fig. I
VI
V
III
II

Numerus certus non constat, q[illegible] novæ [illegible] gantur & valvulæ & vari[illegible] sunt. Sed plures [illegible]

Deinde numerus valvularum in uno loco, [illegible] binarium. Nam per intervalla modo singular[illegible] [illegible] dis, unquam reperiuntur valvulæ: quia in corde [illegible] orificium claudendum, & succeſſus Ventriculi [illegible] [illegible] vehementer est in corde cal[illegible] impetus, [illegible] [illegible] indigebat. In progressu vero venarum div[illegible] imminuunt amplitudinem, & segnior sanguis. Unde ubi ad[illegible] huc satis magnæ, & a copia auctus duo ostiola facta [illegible] ubi minus, unum. Valvulæ triplices [illegible] [illegible] que, præsertim in jugularibus non nunquam [illegible] *Kerkring* & ubi duo tantum sunt, earum unam [illegible] venæ partes prope occludere, alam [illegible] [illegible] claudenda [illegible] esse.

Figura. *Figura* est [illegible] vel [illegible] vel [illegible] [illegible] [illegible] [illegible] porrigi monet *Ruyſchius*.

Subſtantia. *Subſtantia* est [illegible] sed simul densiſſima [illegible] pa[illegible] venæ [illegible] [illegible], ab [illegible] possunt sanguinem [illegible] tinere.

Uſus. *Uſus* I. ad robur [illegible] [illegible] cum arteriæ al[illegible] [illegible] sunt.

Secundū Aquap. II. Præcipuus est *æquapendium* & post eum [illegible] sistere & remorari impetum [illegible] & fluidi sanguinis [illegible] & fluminis instar confluentis in brachia & crura, ob [illegible] [illegible] tum [illegible] & [illegible] venarum [illegible] maxime, [illegible] sangui[illegible] [illegible] [illegible] partes & [illegible] [illegible] [illegible] pedes & [illegible] & [illegible] [illegible], [illegible] pedes & brachia tumerent perpetuo.

Secundū Harveum. Sec[illegible] ab *Harveo* [illegible], quia 1. In jugularibus [illegible] 2. In [illegible] & [illegible] [illegible] venam cavam & portam [illegible] [illegible] 4. Canes & boves [illegible] [illegible] [illegible], [illegible] ad [illegible] 5. E majoribus venis in minores ramos [illegible] sanguis, & e [illegible] [illegible] & circulationis [illegible] III. Ne [illegible] valvulæ in [illegible] est.

III. [illegible] movetur [illegible] & [illegible] fontem. Idem [illegible] venis, quod ve[illegible]

[illegible] eodem modo [illegible] reclinato [illegible] oppi[illegible] & Apoplexiam languidam generet.

[illegible] *Pecquetus* [illegible] quæ [illegible]

Cap. III.

DE VENARUM CORPORIS DIVISIONE, ET DE VENA PORTÆ ET VENIS LACTEIS, ET LYMPHATICIS.

Omnes Venæ totius corporis [illegible] Vena porta & Vena cava [illegible] Venarum [illegible] & [illegible] paulo post agemus.

Venæ portæ origo & radix est vena umbilicalis, [illegible] supra in libro primo, [illegible]

[illegible] autem *Vena porta*, vel *quæ ad portas* est, [illegible] [illegible] venas [illegible] velut per portas [illegible] venas lacteas [illegible] — *Vena porta nomina & appellatio unde.* [illegible]

[illegible] vena post [illegible] & ex [illegible] hepatis par[illegible] [illegible] sed laxior & mollior. Intra [illegible] experientia *Pecqueti*, [illegible] sanguinem hepar [illegible] [illegible] ad omnes partes, [illegible] partes per [illegible]

 Divi

FIGURÆ EXPLICATIO.

Venæ Portæ Ramificationes intra & extra Hepar ostendit.

A A. *Truncus venæ portæ ex Epate exiens.*
b b b. *Eiusdem ramificatio in epate.*
C. *Vena umbilicalis.*
D. *Vena cystica.*
e. *Coronaria ventriculi implantatio.*
F F. *Dexter venæ Portæ ramus.*
G. *Eiusdem sinister ramus splenicus.*
h. *Ortus coronariæ ventriculi, quæ postquam multos ramulos largita est ipsi ventriculo, versus pylorum reflexa in truncum ipsius venæ Portæ implantatur, ubi littera e.*
i i i. *Ramuli venæ splenicæ per Pancreas distributa.*
k k k k. *Eiusdem venæ splenicæ multiplex ingressus in lienem.*
l. *Vas breve.*
m. *Gastroepiploica sinistra, quæ fundo ventriculi excurrit, multosque ramulos tum ipsi ventriculo tum omento largitur.*
n. *Epiploica sinistra.*
o o o. *Ramuli per fundum ventriculi disseminati.*
p p p. *Ramuli qui per omentum excurrunt.*
q. *Alia Epiploica, præcedenti superior, prior enim excurrit per omenti partem inferiorem, quæ magis lumbos accedit.*
R. *Ortus venæ hæmorrhoidalis internæ quæ ramulos*
S S S. *Per mesenterium diffundit, & tandem ubi est † hæmorrhoidales dictas emittit.*
V. *Gastroepiploica dextra, à qua multi ramuli per omentum & ventriculum disseminati oriuntur.*

Rami portæ in epate dicuntur radices.

Dividitur in truncum & ramos.

Ramorum alij superiores, alij inferiores. Ex antiquis illos, aliqui hos *radices* appellant.

Rami portæ mesaraici in intestinis dicuntur Radices.

Illos vocat radices quia ex epate oritur hæc vena originem habens, ut hos quia ut radices ex terra exsugunt materiam, & in truncum arboris devehunt: ita & venæ mesaraicæ, quæ sunt rami inferiores venæ portæ instar radicum sugunt Chylum, iuxta antiquos, nobis vero sanguinem ex mesenterio, atque ita per truncum & ramos superiores devehunt, unde mesaraicæ *epatis manus* dicuntur. Diversimode ergo omnes & ramos & radices vocamus.

Si pe

OSPEDALE DELLA CONSOLAZIONE BIBLIOTECA

ACCADEMIA ...

[illegible]

[illegible] *caput de epate* [illegible]

[illegible] dividitur in ramos [illegible] ad vesicam bilariam, quæ *cystica* [illegible] alium venam ad ventriculum, quæ [illegible]

[illegible] *truncus*, *dividitur* [illegible] eam alterem, [illegible] alterum [illegible]

[illegible] quia splenem adit. Et ante [illegible] de se ramos [illegible] posthæc *coronariam* [illegible] ad omentum duos, & ad [illegible] unum.

[illegible] superiorem & inferiorem. Ille producit *vas breve*, al [illegible] delatos. Hic gignit duas venas [illegible] culo, quæ dicuntur *epiploïs sinistra* & *gastroepiploïs sinistra* [illegible]

Ramus dexter [illegible] portæ antequam dividatur, producit [illegible] nonnullæ capillares eius per pauc[illegible] [illegible]

[illegible] & [illegible] tunicas delatus, distribuitur.

[illegible] *dexter* est duplex, qui in [illegible] monymos abit, & in [illegible] tunicam [illegible] & [illegible]

[illegible]

[illegible] chylum fugi hoc experimento probat [illegible]

Bau[illegible] [illegible]

[illegible] in medio [illegible] exprompta mesenterica [illegible]

[illegible] sed sola lactea intumescere vasa compet[illegible] [illegible] album promptius exceperint mesaraicæ [illegible]

[illegible] *Harv* [illegible] *Arcua [illegible]*

[illegible] ad rectum [illegible] quæ efformare, quæ partim de se pla[illegible] [illegible] & partim inter se quasi per stylicum comi[illegible] [illegible] divaricatis [illegible] semperque vers[illegible] [illegible]

[illegible] intestinis prodeuntes fœtur pinea, præter [illegible] densa pinguedine, quo [illegible] loco dictis arcubus [illegible] infestæ sint lacteis multo minores ex [illegible] habere diverticula. H[illegible] [illegible] tangere possunt. Necessitatis tamen tempore [illegible] [illegible] *Riolanus*, [illegible] intestina, alioquin est intereus sanguis & [illegible] structus.

Hæc [illegible] dilationem *Ex me[illegible] te Harveji*

[illegible] intestinis chylum [illegible]

[illegible] consueverunt [illegible]

[illegible] quid opus contrahere vasa quæ natura [illegible] [illegible] autem esse umbilicalium valorum usum in em[illegible] & adulto [illegible]. *Riolanus* teste *Harveio* [illegible] extare lacteas venas & manifeste spectari; male [illegible]

[illegible] necessitas [illegible] contra existentes *Deusin[illegible]* [illegible] *Harveium* [illegible] chyli admittunt, solis conjectura [illegible]

[illegible] de [illegible] experi[illegible] *L. Be[illegible]* [illegible] succum cum in chylo, futuro sanguini [illegible] mesaraicas [illegible] & cum arterioso sanguine [illegible]

[illegible]

FIGURÆ EXPLICATIO.

Vasa Mesaraica, ex J. H. Paulli

A. *Ventriculus cum venis coronariis.*
B. *Orificium ejus inferius.*
C C. *Intestinum Duodenum apertum.*
D [illegible] *Duodeni* [illegible] *exprefsione quæ* [illegible] *est, exhibens.*
e e e. *Ligamentum spongiosum, carneo & albido colore* [illegible]
f. [illegible] *abrasa interiori tunica,* [illegible] *ena & sanguine ex Mesaraicis rubris scaturientia.*
G G. *Pancreas, insignis in canibus magnitudinis.*
H. *Particula jejuni dissecta.*
I I. &c. *Intestina reliqua Mesenterio connexa.*
K. *Intestinum Cæcum.*
L [illegible]
M. *Corpus glandulosum Aselli, in centro mesenterii.*
n. *Truncus venæ Portæ.*
o o o o. *Rami Mesaraicarum* [illegible] *in truncum concurrentes.*
P P P. *Mesenterium expansum.*
q q. &c. *Arcuati ductus sub intestinis, pinguedine circumfusi.*
r &c. *Surculi horum ductuum intestina perreptantes.*
[illegible] *Vena rubra* [illegible]
t. *Vena & Arteria prope intestinum cæcum.*
u u &c. *Venæ Lacteæ* [illegible] *passim erumpentes, & ad glandulas in medio mesenterii positas abeuntes.*

[illegible]
positus aëræ spatio [illegible] refrigerari instar [illegible]
[illegible]
na portæ semper reperitur densi & obscuri coloris [illegible] vena [illegible]
[illegible]

P[illegible] A[illegible] prolegat [illegible] & [illegible]
tur. Dep[illegible] Lansfurgius [illegible]

B[illegible] [illegible] menta [illegible] [illegible] eft. Siccum [illegible] [illegible] nec [illegible] nec [illegible] [illegible], pollex [illegible], quia [illegible] non [illegible] [illegible] per [illegible] [illegible] ligat [illegible] vaa [illegible] [illegible] chylus [illegible] [illegible], cau [illegible] [illegible] [illegible] cens. 2. Venæ meſ[illegible] ita [illegible] [illegible] chy[illegible] per [illegible] ſ[illegible] non recipiunt. 3. S[illegible] color chy[illegible] non indicat [illegible] qu[illegible] [illegible] tempore *Vincentius* apud *Hoeſeſandaum*, [illegible] creditur, docet, ſi ad [illegible] [illegible] leviter co[illegible] [illegible] intervallo examines. 4. Ex reli[illegible] chylo non [illegible] liquo[illegible], ſed ſplend[illegible] [illegible] quod in lacte ſang[illegible] experi[illegible] ſanguinis miſti coagulatur, chy[illegible] non [illegible] ſiccatus [illegible] [illegible] non ſp[illegible] 6. Colo[illegible] [illegible] ex candido mixtum in [illegible] B[illegible] [illegible] dependere in ſua [illegible] chyli reſolvente, [illegible] perimentum *Christoph Bennetti*. Sanguinem [illegible] curato adhibe mediocrem qual[illegible] calorem, & [illegible] [illegible] rubebit, dein [illegible] flaveſcet & [illegible] dubia candem flave[illegible], ſi [illegible] non adhiberis, [illegible] cet. 7. Sa[illegible] in cava [illegible] corpu[illegible] eſt [illegible] [illegible] contr[illegible], [illegible] in hepate depu[illegible], non [illegible]

Aliud temperamentum [illegible], nec he[illegible] ſanguificat [illegible] [illegible], nec [illegible] [illegible] [illegible] portionem per hepatis [illegible] [illegible] [illegible] tranſ[illegible], ut ſang[illegible] [illegible] [illegible] ex [illegible] [illegible] [illegible], ſicut [illegible] [illegible] [illegible] eodem [illegible] per vaſa [illegible] [illegible] rejiciun[illegible]. Optima ſane conſ[illegible] [illegible] ad [illegible] [illegible] monſtrari tam [illegible] [illegible] ſenſum, quam prompte loquuntur ex ingenio.

1. Juxta eorum [illegible], [illegible] [illegible] præpara[illegible] & prima ſanguinis [illegible] [illegible] verum foret, ſi vera eſſ[illegible] hypotheſis.

3. Iidem *Antiqui* ab hepate referre ſan[illegible] [illegible] [illegible] [illegible] [illegible]. Sed contrarius motus [illegible] [illegible] tempore fi[illegible], nempe chyli [illegible] ad hepar, & [illegible] [illegible], humore [illegible] [illegible] ſam alter[illegible]. [illegible] [illegible] [illegible] a co[illegible] per [illegible], nutritioni [illegible] [illegible]

4. Al[illegible], inter [illegible] *Bartholino Patre*, [illegible] [illegible] ſtina ſanguificationem [illegible] ibi confectum [illegible] [illegible] nutritione. Qui verus eſſet, niſi [illegible] [illegible] [illegible],

poſt

[illegible] statem [illegible] facta. Et commodior iste [illegible] foret, ob copiam alternarum in Liene. Manet [illegible] vasis plane verus.

5. *Asellius*, [illegible] a hepar ferendo lacteas venas per[illegible], [illegible] Mesaraicas [illegible] do[illegible], quam ut ex [illegible] sanguinem pro [illegible]. Quin [illegible], [illegible] con[illegible] venis sanguinis motus majore.

6. [illegible] est sanguinem ex intest[illegible] [illegible] per arterias mesaraicas [illegible] in venis, quam [illegible] *Vesalius*, qua[illegible] venis, [illegible] ab *Harvejo* invent[illegible] cavum & portam [illegible], quas *Columbo* [illegible]. Nec obstat [illegible] purgationibus vel sponte vel per [illegible] pro[illegible] per arterias mesentericas [illegible] est, quod nec negat *Spigelius*, nec *circulatores*.

M[illegible] ramus *sinister*, [illegible] & [illegible] partem spargitur, & Coli partem a [illegible] loco [illegible] & intestinum rectum. Hinc ortam vena [illegible] interna dicta, de qua sequenti & proprio capite.

APPENDIX I.

De VENIS LACTEIS Asellij.

S[illegible] a [illegible] diversum vehunt vasa Lactea & [illegible] Lactea vasa habent suum *Principium*, *Medium*, & *Finem*. Principium est ab intestin[illegible] glandulas mesente[illegible] *primi generis* vocant, vel *Radicates*, Me[illegible] ad receptaculum [illegible] *secundi generis*, [illegible] receptaculo ad venam subclaviam. De [illegible] breviter, [illegible] de *Principio*, cujus inventionem *Asellio* referimus acceptum, Nam 1

L[illegible] venas in mesenterio a colore chyli albicante dictas, [illegible] praeter Mesaraicas, ut qua[illegible] per quas chylus ad hepar vel cor distri[illegible] illas venas per [illegible] *Galenum* *Erasistratum*, post eum autem primus earum [illegible] *Caspar Asellius* Antonius Ticinensis, [illegible] vivi [illegible] facta Anno 1622 [illegible] die Julij. [illegible] Anatomic[illegible] & quibus veritate

Lactearum venarum historia.

veritate [illegible], ipsa [illegible]
[illegible] M[illegible]
[illegible] invenitur. Nam in vivis animalibus [illegible]
[illegible], post [illegible]
[illegible]
[illegible] Semper tamen licet [illegible]
[illegible], [illegible]
[illegible]
[illegible]
[illegible] & [illegible]
[illegible]
[illegible]
[illegible] sunt, [illegible]
[illegible] M[illegible]
[illegible] pauces habeant [illegible]
nervos. [illegible]
pugnante, qui hic simplicem tun[illegible] & [illegible]
[illegible] Adipem esse, [illegible]
[illegible] receptac[illegible] non conce[illegible]
[illegible]
[illegible]
[illegible]
[illegible] & [illegible]
[illegible]
Nili, cujus accolæ, quia caput adhuc latebat. [illegible]
hepati [illegible]
[illegible] *Cl. [illegible]* & *Regio* [illegible]
venas l[illegible] Pancreate seu [illegible]
[illegible] vehi per venas portæ in hepar, ut cum fem[illegible]
[illegible] misceatur ad sanguinis rudimentum. Sed [illegible]
lacteam cum po[illegible]
hepar [illegible] & [illegible]
Asellio credebant. R[illegible]
in thorace detex[illegible], de quo nos post[illegible].

Sed [illegible] principio [illegible]
[illegible], *Asel[illegible]* [illegible]
[illegible] aliorumque meumque, qui diligenter eas in [illegible]
[illegible] hominibus [illegible]
viderunt.

Nomen. Vasa hæc *lacteæ* appellantur vel *lactea vasa* item *venæ lacteæ*, vel ab excoleto verbo *lacteo* est [illegible]
[illegible] gerunt, in candore, [illegible] & [illegible]
dine, sicut idem nomen & veteres & recentiores [illegible]

[illegible], venas Melaraicas & Mele[illegible] ablem de caulis [illegible]

[illegible] & [illegible]

[illegible] *[illegible]* [illegible]

[illegible] conspexit. [illegible]

[illegible], [illegible] & diversa sanguini detergendo debent. Ve[illegible] [illegible] [illegible]

[illegible] accepturis, non est dubitandum.

[illegible] [illegible] chyli necessarium foveat.

Per mesenterium ab intestinis [illegible] ejus [illegible] partim [illegible] [illegible] modo recto [illegible], modo ca[illegible] [illegible] & [illegible], per [illegible] [illegible] [illegible] præcipue collocatas, in Pancreas [illegible]. In Pancreate sive glandula ma[illegible] [illegible] Pancreas, post *Fallopium*, vocavit *A*[illegible] [illegible] & [illegible] [illegible] hac illa introsequentur.

[illegible] *[illegible]* [illegible] *[illegible]*. Seq[illegible] [illegible] *[illegible]*, [illegible] *[illegible]* [illegible], [illegible] o variant observationes nova[illegible] ab *A*[illegible] [illegible], à pancreate seu glandula media rursus [illegible] ramis per portæ, quam quibusdam [illegible] [illegible] [illegible] cava [illegible] ramos [illegible], [illegible] & [illegible] [illegible] carnem [illegible] [illegible] obliterentur.

Qua autē hepatis parte inferantur sive truncus sive pro[illegible] *[illegible]* [illegible] Ego [illegible] *[illegible]*, *[illegible]* [illegible] [illegible] *[illegible]* [illegible], [illegible] Harveæ [illegible] Doct[illegible] *[illegible]* *[illegible]* [illegible] *Entrevio*. *[illegible]* [illegible] [illegible] altos [illegible] venas [illegible] &

Insertio in Hepate.

 [illegible]

FIGURÆ EXPLICATIO

Venas Lacteas exhibet ex Aſ[illegible]

A A. &c. *Venæ Portæ rami Meſaraici & eos comitantes rami Arteriæ [illegible].*

B B. &c. *Venæ Lacteæ quæ [illegible] inferiore [illegible].*

C C. *Nervi per Meſenterium [illegible].*

D. *Ventriculi fundus.*

E. *Pylorus.*

F. *Inteſtinum duodenum.*

G. *Jejunum inteſtinum.*

H. *Ileum.*

I. *Vena & Arteria ventriculi fundum perreptans.*

K. *Omenti pars.*

L. *Glandula magna in exortu meſenterij, quam [illegible] Pancreas appellat.*

[illegible] ferronis locum. [illegible] molli [illegible] [illegible] glandul[illegible] [illegible] & [illegible] [illegible] [illegible] [illegible] Ab hac [illegible] [illegible] [illegible] lacteæ venæ [illegible] [illegible] [illegible] [illegible] ratum excipiat.

[illegible] lymphaticæ [illegible] [illegible] [illegible] A glandula [illegible] [illegible] Receptaculum [illegible], deferuntur, [illegible] exonerant. De quo Receptaculo ſuo loco actum [illegible] cap. 1[illegible].

Inſ[illegible]

[illegible] vero [illegible] habent, mecolæ maxime [illegible] ob [illegible] etiam [illegible] [illegible] ex [illegible] calore [illegible] defeturitur. Et ne ea [illegible] rurfus relabatur [illegible] [illegible] [illegible] *Laetecus* [illegible] [illegible] bus, q ex etiā cum vi repulsū chyl[illegible] [illegible] ex recent[illegible] [illegible] [illegible] tra intest[illegible] collocatas, q[illegible] [illegible] prella[illegible] [illegible] [illegible] elle in lacteis [illegible]

Subſtantia. *Subſtantia* venæ eſt, [illegible] & ſtructuram & [illegible] [illegible] ſucco [illegible] , eadem habeant. Quarum tres [illegible] [illegible] ponentes, *fibra, membrana* & *caro*, *Membrana* [illegible] ſimplex ad arteriarum diſcrimen, quæ nec h[illegible] craſſa [illegible] tunica [illegible], ſicut nec in extern[illegible] par[illegible] [illegible] Me[illegible] [illegible] [illegible] [illegible] diverſas [illegible] [illegible] [illegible] , [illegible] & [illegible] pulſionem, quanquam pulſu potius [illegible] chylum [illegible] ſe licet & conſtrictis inteſtinis, ex liga[illegible] [illegible] *Walæus*, concurrente [illegible] , *Pecqueto* [illegible] [illegible] ab ipſo hepate tra[illegible], vel à corde.

[illegible] ſpatia inter fibras implet, [illegible] præterea *uſus* eſt, chylum antequam ad Recep[illegible] & Cor perveniat, præparare.

[illegible] [illegible] & ſic [illegible] ad [illegible] [illegible] [illegible] omnes [illegible] [illegible] non habeant [illegible] [illegible] morbus. Parvæ autem ſunt [illegible] [illegible] partes [illegible] & [illegible] [illegible] tribuo, quod advertit [illegible]

[illegible] *Numero* [illegible] [illegible] Meſen[illegible] [illegible] & [illegible] [illegible] alterio partes Meſaraicis [illegible] garibus, ut exiliratem cop[illegible] [illegible]

[illegible] *Qualitatibus primis* [illegible] quia chylus, quem vehunt, [illegible] *Paſſi*[illegible] [illegible] tamen vulgatis humidiores.

Qualitatibus ſecundis [illegible] & ſubtiles. Tenera, [illegible] [illegible] & [illegible] [illegible] [illegible] Ex his qualitatibus conſequitur *Color* [illegible] partium ob conformationem ſpermam ex ſemine, [illegible] ob humorem quem vehunt candidum, quippe

Actio

[illegible] chyli, quas nec sic chyli [illegible] [illegible] supra d[illegible] Me[illegible] tum [illegible] per arterias [illegible] substantia [illegible], unde mollita [illegible] arte[illegible] et [illegible] venarum, ut ad hepar revehant [illegible].

II. Aptiorem reddere chylum [illegible] ad [illegible] perveniat, ubi [illegible] sub [illegible] incipit.

III. Ad [illegible] mesaraicarum [illegible], expeditam viam [illegible] chyli maxime con[illegible] hactenus aperiunt [illegible]. Non [illegible] perveniat [illegible] Succum [illegible] ventriculum nullæ [illegible].

IV. Causas corporis aliquot affectuum antea o[illegible] lica. [illegible] ob infessis scirrho Mesenterii [illegible] in Mesaraicis [illegible], Melancholiæ Hypochondriacæ, &c.

V. *Gassendus* eruditus per lacteas venas contemnit [illegible] succum [illegible] generatione [illegible] potest. Non prius, ob rationes supra [illegible]. Nec postremum, quia inficeretur chy[illegible] humoris, quanquam casu necessitatis [illegible] jejunio id fieri concedat Vir laudatus.

VI. [illegible] seu succum al[illegible] ante [illegible] vasa lymphatica [illegible] mesenterii [illegible]

culo convenire, unde totum corpus [illegible] evadent [illegible] per[illegible] [illegible]. Vidisse hanc [illegible] in omnes partes [illegible] [illegible] testatur Everardus [illegible] experientiam [illegible] Stenonus. [illegible] convenerunt Bilsius lactea vasa [illegible] hepatis [illegible] & horum naturalem cursum invertit.

VII. Paradoxa opinio est Harvæi, cum probat, non recipi his venis chylum, nisi ut custodiatur copia chyli pro mesenterio, relatam enim sensim a mesenterio, coqui & mitti ad hepar, nec non ad lacteum thoracicum, [illegible] urgente [illegible] illac & [illegible] cruditates [illegible] sanguis. Ligaturis clare patet, [illegible] chyli in has venas & [illegible] ad thoracicum.

VIII. Lactearum primi generis seu primæ radicationis usus est chylum, quem habent ex intestinis, ad glandulas mesenterii & lumbares deferre, non ut [illegible] nervorum [illegible] deponatur, nusquam [illegible], sed ut [illegible] sus liquor seu lympha expurgetur. [illegible] vero seu secundi generis, ut puriorem Receptaculo inferant. Huius denique usus Libro I. explicatus.

Tantum de Venarum lactearum historia, quoad principium [illegible] & [illegible] quod [illegible] [illegible] controversia. Quæ [illegible] [illegible] chyli in [illegible] evanescente, non est referenda, ut [illegible] Asellius [illegible], quia extractus ex venis [illegible] colorem suum [illegible] neque tam evane[illegible] [illegible]. Sed quod postea Asellius probabile [illegible] hepatis vel cordis [illegible], [illegible] ante omnia [illegible] debeb[illegible] spiritus ab[illegible] [illegible] vo & sanguine & chylo indigent celeriter coquendo. H[illegible] causa reddi potest, quare venæ lacteæ in homine [illegible] gulato quem secuit Amstelodami D. Tulpius, multique post [illegible] [illegible] quæ [illegible] & [illegible] non [illegible] [illegible] Veslingio, & Folio. Ve[illegible], Gassendo in Gal[illegible] Oxoniæ Highmoro, & nostra Hafniæ, [illegible] propter dolores a strangulatione abruptos, hepatis vel cordis, vel [illegible] tractus nullas esse poterat. Nam quod in [illegible] has venas invenerit Veslingius, [illegible] cordis sive imbecillitati, vel humoris lactei [illegible] plenam. Vidi & ego Hafniæ, anno 1650. venas lacteas [illegible] Suenone [illegible] Vardbergensi [illegible] suffocato [illegible] largius antea & [illegible] & comedisset, in mesenterio conspicuas, quia [illegible] respirat[illegible] osse [illegible], suffocatoque corde, [illegible] trahendi chyli [illegible] accessit.

[illegible] Anatomiæ hujus ignarus P. Lauremberg[illegible] disparere venas has sibi [illegible] a secc[illegible] [illegible] etiam max[illegible] [illegible] mortuis [illegible] non reducet. [illegible] ad Recepta[illegible] [illegible] Recepta[illegible] [illegible] pectus, maxi[illegible] [illegible] & [illegible] per [illegible] ad [illegible] lactea [illegible] Repl[illegible] cessat [illegible] parere la[illegible] Observatio est Pecqueti.

APPENDIX II

De LACTEIS THORACICIS Pecqueti.

Ductum Lactearum in thorace invenit Pecquetus, in canibus [illegible] a Receptaculi superna parte sub diaphragmate duos ramos [illegible], quorum sinistrum supra diaphragma ampullam, dextrum alveum, utrumque ampullascentem alveum vocat, non [illegible] unicum crassum, ut in ovibus, [illegible] incumbentem observavit sinistrorsum ad subclaviam venam ad [illegible].

Lactea thoracica in brutis.

In homine nos primi Hafniæ scrutati sumus, & invenimus Lacteum Thoracicum [illegible]. A tribus [illegible] glandulis lumbaribus lactea totidem ramos lacteos, circa mediam thoracis vertebram coeuntes, [illegible] deinde ramo per dorsi medium ad [illegible] & venæ azy[illegible] inter utrumque, sub œsophago, [illegible] & [illegible] membranulis [illegible].

In homine.

Qui Receptaculum in homine observarunt, inter quos Carolus le Noble, productos ex ejus superiori parte duos canales thoracicos longius protentos tradunt, quorum [illegible] pennam [illegible] æquat, [illegible] longe [illegible] glandulis & pinguedine abundare, & in multos flexus [illegible] anfractus, [illegible] videatur in [illegible] tandem [illegible] post [illegible] spatium sibi [illegible] ut ex duobus unus remaneat canalis sinister.

Diversam distributionem in brutis Pecquetus tradit, [illegible] at vero [illegible] naturam in [illegible] & species. In omni autem genere animalium [illegible] sunt a Receptaculo, numero non semper [illegible] Hos [illegible] Pecquetus primus in lucem protraxit in brutis, nos in [illegible] hunc Lactearum Thoracicarum nomine, quod etiam in

Diversa distributio.

FIGURARUM EXPLICATIO.

FIGURA I.

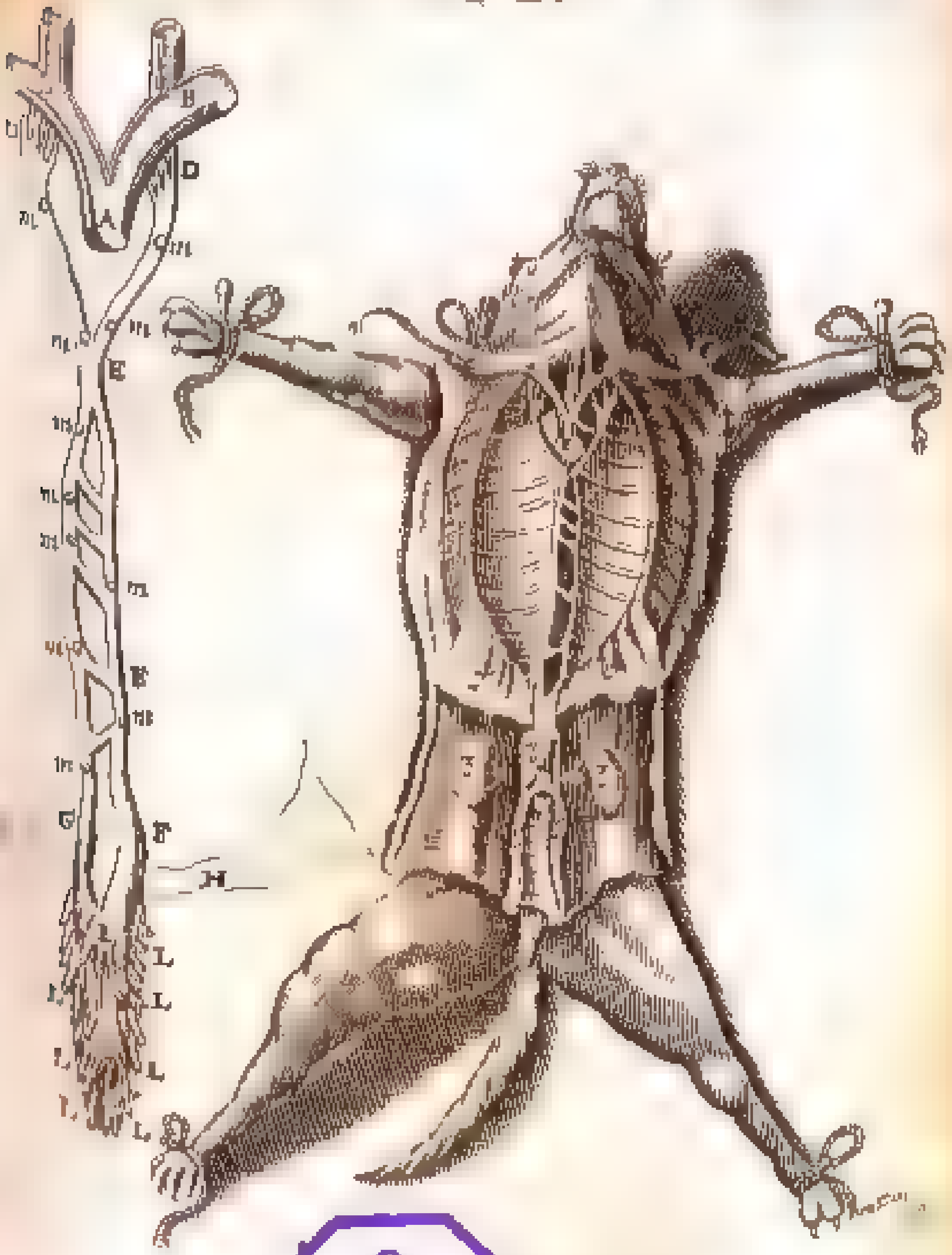
Exhibet Vasa Lactea intra thoracem inventa, una cum Chyli receptaculo, seorsim à dissecto animali. Ex *Pecqueto*.

A. *Truncus adscendentis cavae sursum in longum apertus.*
B B. *Jugularium axillariumque Venarum concursus, ubi chyli scaturigines intra cavam per lactearum ostiola punctis designantur.*
C C. *Jugularium valvulae influenti in cavam chylo adscensum interdicentes.*
D D. *Lacteorum vasorum ad scaturigines distributio.*
E E. *Diversi, pro naturae ludentis arbitrio vasorum lacteorum concursus.*
F. *Ampulla, quae intra Thoracem, juxta illaesum diaphragma sinistrorsum saepius apparuit.*
G. *Alveolus dextrorsum ad diaphragma excrescens.*
H H. *Residua diaphragmatis portio.*
I. *Chyli receptaculum.*
L L. *Mesentericarum lactearum trunci, horum juxta receptaculum amplior tunica, valvula illuc detrescentes refluxum chyli interdictum significant.*
m m m. *Vasa intra Thoracem valvula chyli concedentes ad cavam transitum, refugium ad receptaculum prohibentia.*

FIGURA II.

Cavam apertam ostendit cum Vasis superiori figura expositis, prout sunt in animante suo quoque loco disposita.

1. *Adscendentis Cavae truncus.*
2. *Superstitis aortae inter renes chyli receptaculo adhaerescentis portio.*
3. *Renes.*
4. *Diaphragma dissectum.*
5. *Musculi psoae, s. lumbares.*



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FIGURÆ EXPLICATIO

Ductum & Receptaculum Chyli exhibet ex *Ioan. van Horne*

a a a. *Vena & arteria mesaraica.*
b b b. *Venæ lacteæ per mesenterium disseminatæ.*
C C. *Glandula mesenterii maxima, Asellio Pancreas dicta.*
d d. *Duo rami insignes per medium ramum communicati a dicta glandula ad renalem pergentes.*
E. *Glandula reni sinistro superjacens.*
f g g. *Anfractus, gyri plexusque quamplurimi arteriæ magnæ trunco incumbentes.*
H H. *Ductus chyliferus novus per thoracis longitudinem adscendens.*
I I. *Ejusdem bifurcatio inter quartam & sextam vertebram thoracis.*
K. *Portio ductus chyliferi œsophago incumbens, ubi cor superavit.*
L. *Ductus insertio in jugularem sinistram.*
M. *Ejusdem ingressus in axillaris principium s. subclaviam.*
N. *Venæ cavæ portio supra Cor.*
O. *Ejusdem sinistra bifurcatio.*
P P. *Oesophagus.*
Q. *Cor.*
R R. *Pulmones.*
S. *Aspera arteria.*
T T T. *Aorta arteria descendens.*
V V V. *Diaphragmatis discissi portiones.*
X. *Ventriculi corpus ad latus positum.*
Y. *Intestini recti portio è loco suo remota.*
Z. *Ren sinister cum vena & arteria emulgente.*
α. *Venula transiens glandulam renalem & ad lumborum musculos terminans.*
β β. *Ramuli intercostales ab aorta derivati.*
δ δ δ. *Jejuni intestini pars.*
ε ε. *Hepatis lobus ventriculo incumbens.*

N
K
T
R
H
L
X
P
Y
Z

Dissertatione posteriore placuit *Pecqueto* ret[illegible]

Varia appellatio. *Lacteum Chyliferum* appellat *Jo[h]annes Horne*, [illegible] circa [illegible] pota [illegible] appar[illegible]. *Rudbeck[illegible]* [illegible] buttu a *Lactea Thoracica*. Ma[illegible] *Bi[l]sius* R[illegible].

Color. *Colore* ca[illegible] tho[illegible] con[illegible] [illegible] Pel[illegible] acce[illegible] atq[illegible] medio tempore a [illegible] R[illegible] vena a [illegible] Appa[illegible] natu[illegible] candor a chylo [illegible] conf[illegible].

Substantia. *Substantia* [illegible], [illegible] evac[illegible] di[illegible] vel lympha [illegible], ve[illegible] [illegible] cont[illegible] la[illegible] contra[illegible].

Figura. *Figura* [illegible], [illegible] tota, & in brutis [illegible] dio vinculo superne nodosa, nam

Valvula. *Valvas* [illegible] habet [illegible] cor[illegible] & [illegible] compressus [illegible] fistu[illegible], fluxus non potest [illegible] detrudi.

Magnitudo. *Magnitudo*, circa Receptaculum amplior, in progressu angustior, capax tamen pro copia lactea[illegible] [illegible] ce[illegible] chylus in lacteas thoracicas [illegible] compressione viscerum [illegible], cont[illegible] aortæ pulsu & musculo ps[illegible] succes[illegible] pulsio, sicut per angustum canalem enemata ex ampla vesica inter[illegible]. Auget capacitatem *longitudo*, quæ tanta est, quanta universi dorsi regio, & lumbaris pars.

Numerus. *Numero* un[ic]us. D[u]plex [illegible] quando pro copia chyli in gallosis unicus non sufficit.

Connexio. *Connexio*. Receptaculo *inferius*, postica parte spinæ dorsi antica œsophago, ad latera venæ [illegible] & aortæ *superius* claviculis, nam

Insertio. *Insertio* in venam axillarem sinistram. In dextram quoque [illegible] vidit *Pecquetus* quod varietati [illegible] adscriptum. [illegible] claviculam ascend[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] jugularis venæ, axillarem [illegible] [illegible] [illegible] greslum chyli sanguini que.

Inventio Bilsii nulla. H[illegible] [illegible] Lacteorum Valorum. Non observat [illegible] adscendere [illegible] *Bilsius* [illegible] tentat, afferere [illegible] Receptaculo co[illegible]

[illegible] & Labyrintho, qui ex con[illegible] [illegible] jugularum oritur. [illegible] thorac[illegible], quæ in collo [illegible] seorsum vehunt [illegible] thoracici ramos circa [illegible] in eandem insertionem [illegible]

[illegible] tempore [illegible] & semper aliàs lympham. Illam à Receptac[illegible] in Receptaculum, & ipsam [illegible] & lymphæ per thoracicas [illegible] aliî emergunt. 2. Vim [illegible] cos deferre, quam per consuetas [illegible] 3. Variarum [illegible] causas propagare [illegible] Symptomata [illegible] post cibum cop[illegible] assumpto, morteis inopinatæ, [illegible] compressis [illegible] & c. quæ [illegible] in *Historia* [illegible] Thor. & *Defens.* [illegible] Tympanitem cum [illegible] & [illegible] *Glandulæ* [illegible] vitium glandularum [illegible] jugularis externi exortum, à [illegible] ad lymphæ [illegible] excipiendæ dicatum *Bartholinus*, [illegible] quam rorem vocat *Bilsius*, [illegible] lympham vehi, certum est oculis testantibus, [illegible] [illegible]. Lacteus enim [illegible] [illegible] hæc dicam [illegible] [illegible], ex quibus jam agendi tempus.

APPENDIX III.

DE VASIS LYMPHATICIS Nostris.

Usus.

[illegible] à sanguine & chylo diversum vehunt, nempe aquam, seu lympham [illegible] nobis post [illegible] Arte Anatomica [illegible] tempora [illegible] [illegible] Deo [illegible] [illegible] Dec. 1651. [illegible] [illegible] xxvi [illegible] [illegible] bus apparuerunt [illegible] sæpius repetita sectione in [illegible] *Mauritio Lysero* [illegible] corpore observata, à nemine antea monstrata vel [illegible]

Inventio vasorum Lymphaticorum.

descripta [illegible] demum 1654. anni initio, in phthisico homine [illegible] *Henr. a Moinichen* [illegible] novorum Historiam variis *scriptis* [illegible] *Defensionibus* contra dissidentes vir [illegible] Eadem [illegible] asserit in duplici Apologia *Martinus Bogdanus*. Circa eadem tempora in Suecia [illegible] *Olaus Rudbeck*. In Anglia de *Jolivio* quoque [illegible] gloriantur [illegible] Quæ [illegible] hinc inde vera sint, negare non [illegible] sed nobis, qui [illegible] in arenam descendimus, nullus mortalium viam monstravit. Nunquam tamen tanti feci ista [illegible] ut [illegible] Natu [illegible] patere agnoscerem.

Nomen. *Nomen.* Vasa *Lymphatica* mihi placuit appellare, à contentis [illegible] hydatidum enim in morem splendent, ut *crystallina* quoque dici possent. [illegible] *serosa vasa, ductus aquosi, Lymphæ ductus, vena aquosa.* Invaluit tamen inter Medicos plerosque nostra appellatio, & [illegible] Anatomica donata est, quam etiam tuetur *Christianus Ostenfeld* noster, in Pharo [illegible] nosque [illegible] contra *Riolanum* defendimus.

Existentia. Vasa sunt *sui generis*, non surculi *venosi* à quibus [illegible] contento [illegible] colore, otto, nec cum [illegible] continuantur, non *filamenta* quibus venæ firmantur, quia cava sunt [illegible] non [illegible] *aberrantia*, quia certos habent [illegible] progressus, usus, non denique *venæ* [illegible] nec sanguinem vehunt, nec chylum, sed lympham semper & ubique. Hinc

Color. *Color* est hyalinus, crystalli instar resplendens, nisi alieno præter naturam humore inficiatur lympha. Nam

Substantia. *Substantia* est tenuissima, pellucida ut facile rumpi possit in Hydrope. Hinc effusa lympha [illegible] parent, [illegible] tamen robusta pro continenda aqua, ut etiam separari possint vasa, exsiccari & in tabella cum aliis vasis ostendi. [illegible]

An duplex? [illegible] constare, fabulosum est, quorum exterius [illegible] interius [illegible] fermentativum [illegible]

Figura. *Figura* interna cava est, venarum more, externa varia. Maxima pars [illegible] venas ambit, hederæ [illegible] amplectitur, per tenuissima filamenta [illegible] & *connexa*. Multa [illegible] protenduntur præsertim prope hepar, jugulum, &c. Exprimunt egregie fluminum anfractuosos [illegible] quibus per apertos campos [illegible] errantque. Nodosa quoque sunt & externe apparent inæqualiter tumentia, [illegible] lympha [illegible] stantur, idque propter

Val

Valvulas, non [illegible] [illegible] in [illegible] [illegible], sed [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible], & obliquè invicem superpositas, [illegible] [illegible], & [illegible] [illegible] [illegible] [illegible] venis, adeo ut [illegible] [illegible] [illegible] [illegible] aliqua demonstrent [illegible] [illegible] [illegible] [illegible] ne aqua [illegible] lymphatica regrediatur. *Valvulæ.*

Magnitudo pro animalium diversitate variat [illegible] [illegible] & angusta, [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] tamen [illegible] [illegible] [illegible] [illegible], ut [illegible] [illegible] [illegible] [illegible] [illegible] hepar [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. Quod vero magnitudini [illegible] [illegible] [illegible] decit, supplet *Magnitudo.*

Numerus, qui in abdomine [illegible] vix potest [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] parte [illegible] vel septem [illegible] [illegible] ramos [illegible] [illegible] exeunt amplexibus, nonnunquam [illegible] XII. ex omnibus lobis interdum XX. In anterioribus prope [illegible] unicus [illegible] utrinque ramus conspicitur a latere & a collo. Interim tamen est numerus pro locorum diversorum varietate & speciminum. [illegible] [illegible] in capite adhuc vel minores vel [illegible] [illegible] [illegible]. Quotidie observationum [illegible] [illegible]. *Numerus.*

Exortus lymphæ [illegible] [illegible] [illegible] omnibus partibus & visceribus, ex [illegible] lympha separatur [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] prodeunt, quemadmodum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], vesicula fellis, [illegible] [illegible] [illegible] [illegible] [illegible], corde, pulmonibus [illegible] [illegible] [illegible] [illegible], [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] & [illegible] [illegible] [illegible] glandulis, [illegible] hepar, [illegible] [illegible] [illegible] [illegible], [illegible], [illegible] [illegible] perpetuas [illegible] lymphatica [illegible] vel [illegible] vel [illegible] [illegible] non [illegible], quandoquidem & hæc glandulis [illegible] lymphatica [illegible]. Quæ ex glandulis prodeunt ramificationes suas [illegible] [illegible], In visceribus difficulter & musculis discernas. [illegible] tamen [illegible] [illegible] [illegible] venis, [illegible] partibus [illegible] [illegible] arteriis [illegible] [illegible] superfluam lympham, [illegible] venæ sanguinem, hauriant. *Exortus.*

Insertio duplex. [illegible] [illegible] [illegible] vasorum, superiorum [illegible]. Vasa [illegible] [illegible] [illegible] [illegible] [illegible] inseruntur in Receptaculum chyli vel glandulas [illegible] [illegible] lumbares [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] suam lympham [illegible] [illegible] [illegible] ad [illegible] [illegible] per thoracicas lacteas deducatur. Quæ vero supra [illegible] [illegible] in thorace vel collo vel artubus [illegible] originem, [illegible] Vasa lymphatica [illegible] inseruntur in thoracicum ductum. Colli vero *Insertio.*

in

& art[illegible] externam [illegible] [illegible] cur confluentibus ostiis lymphaticorum, ex [illegible] sibi nonnulli labyrinthum quendam imaginantur.

Truncum non habent. [illegible] potest [illegible] in [illegible], sed ex partibus diversis [illegible] fontes separatis originibus ad tres [illegible] chyli lacteum thorac[illegible] & [illegible] communem [illegible] exundent. Huc

Differentia. *Differentia* varia est ratione originis & insertionis varia. *Origi*nis ratione [illegible] a visceribus & [illegible] à glandulis [illegible] [illegible] ex [illegible] [illegible] in venas [illegible] in cavitates deponere, ut in oculos [illegible] oesophagum, laryngem. *Insertionis* [illegible] per [illegible] Triplicem & [illegible] differentiam [illegible] fontibus in glandularum superficiem sparg[illegible] unius glandulae in alterius gibbam pergere [illegible] [illegible] cavo [illegible]

Usus. *Usus* [illegible] lympham [illegible] [illegible] & [illegible]

De Lympha. *Origine.* 1. *Origo* est a part[illegible] tentiosa, [illegible] ipsis arteriis, [illegible] nervis, qui nec cavi sunt, nec lympham manifeste [illegible] H[illegible] continuo [illegible] & [illegible] tur, quia continuo arteriae [illegible] & partes [illegible] serum emittunt.

Cursus. 2. *Cursus & fluxus* est versus C[illegible] quo tanquam in Oce[illegible] [illegible] Ex [illegible] sanguine [illegible] ro certis experimentis didici. 1. *Ligatura* [illegible] constricta vasa flaccida apparent, [illegible] & [illegible] ctant, at versus extrema conspicuo tumore [illegible] remota. 2. *Folle* [illegible] & [illegible] in corde [illegible] Ex [illegible] circa iliacos [illegible] spec[illegible] qua parte [illegible] [illegible] quae [illegible]

[illegible] observatur. 3. *Sola* valvulæ deprehenduntur obi- [illegible] obsita [illegible] & glandulas ver- [illegible] ad Receptaculum. 4. Ex [illegible] Receptaculum chyli [illegible] ductu omnem [illegible], quod [illegible] lymphaticis tumentis & evanescentibus, Receptaculum [illegible] lympha, non chylo, turgeat. Quin & ipsæ lacteæ [illegible] expulso chylo, acceptaque a Receptaculo [illegible] more lymph[illegible] [illegible] aqua plenæ, [illegible] vulnere pertundantur. Ex his [illegible] cordi transmittunt, quā antea chylus.

3 *Substantia* [illegible] aqua videtur limpida, sed simplici [illegible] chyli tenuior pars, [illegible], accurate [illegible] permista, ex quibus lympha [illegible]. Illa vel per [illegible] aquarum vias excernitur [illegible] circulatur. Experimentum id docet. Igni [illegible] exposita lympha, sicut serum sanguinis post Ve[illegible] [illegible] aqua evaporante. [illegible] lympha [illegible] animalis [illegible] nervorum excrementum ex [illegible] [illegible], aliis aliud, ac quibus nos alii.

4 *Motus.* A circumferentia ad centrum. Quod sensus docet [illegible] ligatura, valvularum [illegible] conspiciens, &c. [illegible] specie [illegible] antea dictum. Circulari cum sanguine [illegible] est, [illegible] lymphæ partem non solum, sed aquam [illegible] aquam tamdiu moveri donec per renes [illegible] sudoris [illegible]. Celerius moveri sanguine creditur quibusdam, quia [illegible] post mortem [illegible] ligata vasa lymphatica [illegible] imputandum, quia [illegible] moveri, cel lymphæ [illegible] liquidi[illegible]. [illegible] moveri [illegible] numerosas habet [illegible] valvulas [illegible] plena vasa [illegible], postquam [illegible] [illegible] hoc vinculo [illegible] aquosa [illegible] amphora [illegible] propter nervos cum dolore conflictantes humo[illegible] de se omnem in lymphatica exprimentes.

Sed variat motus lymphæ in diversis, & in eodem, pro varia vel [illegible] [illegible] conditione, [illegible] lymphæ natura calida vel frigida, tenui & pura vel inquinata, vel copiosa vel parca. Si [illegible] aliquid de motu, celerius moveri videtur, quia [illegible] & sanguinis fluxum promovet. Valvulæ non [illegible], [illegible] obstat. [illegible] sunt vasa in defunctis,

 quia

Substantia.

Motus.

Authoris de motu sententia.

FIGURARUM EXPLICATIO.

FIGURA I.

Vasa Lymphatica in cane dissecto exhibentur, quæ ut discernas, reliquas partes literis signatas, ita distingue.

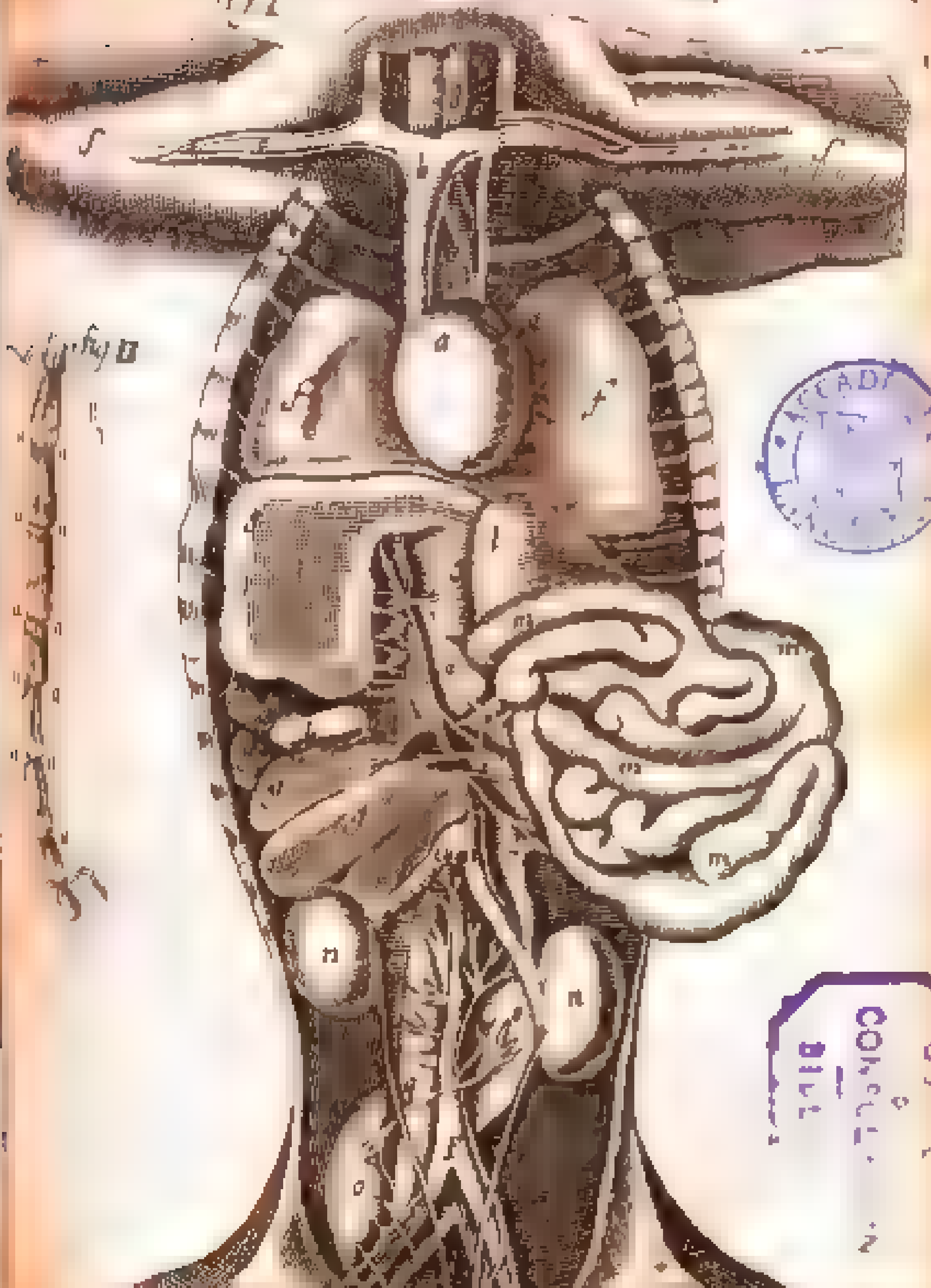
A. *Cor in suo situ.*
b. *Vena cava ex corde adscendens.*
c c. *Axillaris vena.*
d. *Oesophagus.*
e e. *Jugulares venæ.*
F F. *Pulmones utrinque.*
G G G G G G. *Hepatis lobi.*
H. *Vesicula fellis.*
I. *Vena lactea Thoracica axillari sinistræ inserta.*
K. *Arteria aorta ex corde egrediens.*
L. *Ventriculus.*
m m m m. *Intestina ad sinistram reflexa.*
n n. *Renes.*
o o o o o. *Pinguedo, quam vasa lymphatica penetrant, sub qua etiam prope emulgentes receptaculum situm est, & hinc inde lactea glandula.*
p. *Arteria Iliaca.*
q. *Vena cava descendens.*
r. *Ureteres circa pelvim vesicæ abscissi.*
s s. *Pedes anteriores denudati.*
t t. *Vena porta.*
u u. *Emulgentes venæ.*

Reliqui ductus sunt [illegible] venas ambientes & comitantes [illegible] ob exilitatem non signati. Vasa Lymphatica nova [illegible] Per axillarem venam [illegible] dextram simplex ramus [illegible] per [illegible] bifurcatus in angulum [illegible] c c [illegible] Ex hepate G G G G G G. varii truncis & rami Lymphatici portam [illegible] scendunt, & se in pinguedinem O O immergunt. Exilis quoque ramulus Lymphaticus ex vesicula fellis H. eandem portam t. petit, nonnunquam plures. Ambiunt hæc vasa Lymphatica Arteriam Iliacam p. & venam cavam q. variis gyris [illegible] ad sinistrum latus arteriæ [illegible] ramo [illegible] anastomosibus inter se unita, quæ per pinguedinem [illegible] receptaculum seu glandulas lacteas effundunt omnia.

FIGURA II.

Vasa Lymphatica [illegible] monstrat ab antica parte, utrinque [illegible] ligatum, ut Valvulæ conspici possint, ex *Fr. Ruf, chir.*

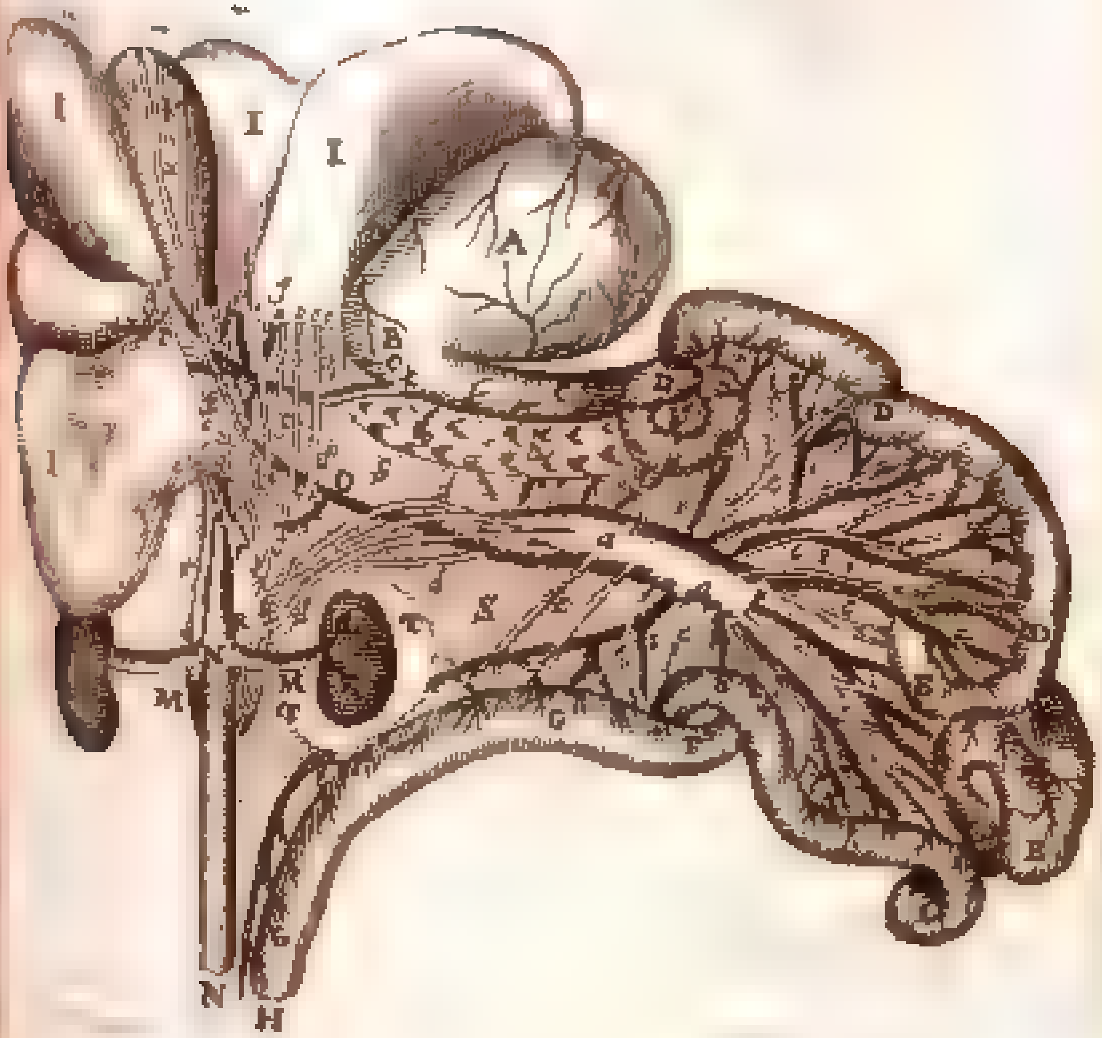
a a. b b. *Valvulæ semilunares in dictis Vasis.*



FIGURÆ EXPLICATIO.

Proponit hæc serosa vasa ex *Ol. Rudbeckio.*

A. *Ventriculus Canis.*
B. *Pylorus.*
C C. *Duodenum.*
D D D. *Jejunum.*
E E E. *Ileon.*
F. *Cæcum.*
G G. *Colon.*
H. *Principium recti.*
I I I I I. *Lobi hepatis quinque.*
K. *Vesica fellis.*
L L. *Renes.*
M M. *Venæ emulgentes.*
N N. *Vena cava.*
O. *Vena porta.*
R. *Vesica chyli.*
S S. *Mesenterium.*
T T. *Pars mesenterii fracta, ut ligatura ductuum hepaticorum commode injici possit.*
a a. *Pancreas glandulosum in medio mesenterii.*
b b. *Pancreas carnosum duodeno annexum & ventriculo substratum.*
c c c c. *Venæ lacteæ inter intestina & pancreas.*
d d d. *Venæ lacteæ pancreas hoc glandulosum egredientes & vesiculæ chyli insertæ.*
a a a. e e e. *Ductuum hepaticorum extra hepar origo.*
f f f. *Eorum ad glandulam* m. *& ab illa in chyli vesicam progressus.*
g g. *Rami duo choledochi.*
k. *Ductus hujus in duodenum insertio.*
l l l l. *Vena mesaraica.*
m. *Glandula, ubi porta sita ductus hepaticos recipiens.*
n n. *Unus horum ductuum vesicam fellis perreptans sæpissime visus.*
o o o o. *Venæ portæ in hepar ramificationes.*
r r r. *Ductus hepatici qui (artissime venæ cavæ adhærentes) vesiculam chyli ingressi sunt.*
t t. *Vena cystica.*
p p p. *Valvularum in hisce ductibus sedes.*



ACADEMIA LANCISIANA

FIGURARUM EXPLICATIO.

Ex eodem Rudbeckio.

FIGURA I.

A. *Cor à sinistra parte.*
B B. *Pulmones in dextram reflexi.*
C C. *Vena cava.*
D. *Vena axillaris dextra.*
E. ——— *Sinistra.*
F. *Pars ejusdem aperta ut in conspectum veniat insertio vasa chy*[illegible]
G. *Sternum pusillum* [illegible]
H. *Vena jugularis sinistra.*
I I. *Arteria aorta.*
K K. *Vesicula chyli.*
L. *Ramuli Venæ cavæ hepatici.*
a a. *Venæ emulgentes.*
b b. *Venæ lumbales.*
d d. *Venæ crurales.*
e e e. *Vasa serosa quæ sub intestino recto ascendunt ad chyli vesicam.*
f f f f. *Glandulæ ad crurales venas sitæ.*
g g g. *Harum glandularum vasa serosa vesicam prospicientia.*
h h h. *Ejusdem generis vasa inter abdominis musculos progredientia, quæ similiter vesiculam chyli ingrediuntur.*
i i i. *Vena cava inter pancreas glandulosum & vesicam chyli repens.*
k k k. *Pancreas glandulosum.*
l l l. *Vena lactea inter pancreas & mesenterium.*
m m. *Ductus chyliferus.*
n. *Ejus insertio in axillarem venam.*
o. *Glandula sterni.*
p p. *Harum ductus serosus ramo chylifero* [illegible]
q. *Ramulus hujus ad costas.*
r r. *Glandula cordis.*
s s. *Vas ejusdem serosum quod ab corde ductui chylifero inseritur.*

FIGURA II.

t. *Ostendit bifurcationem ductus chyliferi sub corde, ut* [illegible]

FIGURA III.

v. *Vena axillaris cum jugulari sinistra* y.
u. *Ductus chyliferi triplex insertio.*

FIGURA IV.

x. *Ramificatio varia ductus chyliferi ut* [illegible] *in animalibus reperitur.*

FIGURA V.

α α. *Oesophagus.*
β. *Glandula ipsi* [illegible]
γ γ. *Vas serosum inde ortum trahens & ductui insertum.*
δ δ. *Ductus chyliferus.*

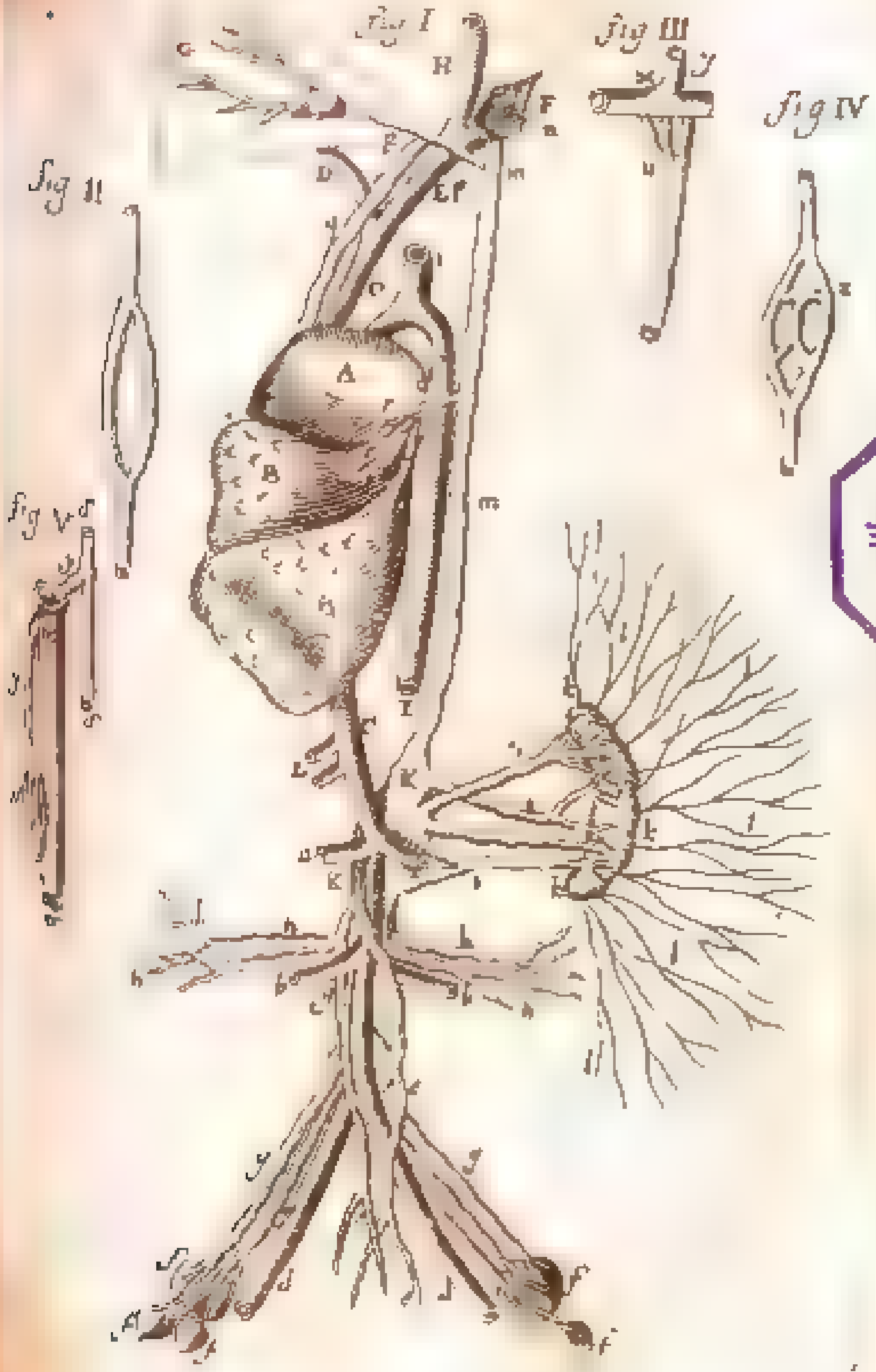


fig I
fig II
fig III
fig IV
fig V

quia cessat motus. Quam [illegible] tractio, non [illegible] tamen haec vasa, [illegible] durante vita nova lympha suppeditatur. Tamen [illegible] vasa [illegible] sunt lympham propellere, [illegible] nervi exp[illegible] diu [illegible] subinde cum superiore sanguine [illegible] lympha [illegible] potest, [illegible] tanquam nervorum motus cesset. Ad [illegible] titudinem spectat, & strepitus lymphae [illegible] hoc liquore observarunt curiosiores.

Color. 5. *Color* [illegible] est & aqueus secundum [illegible] pro var[illegible] chyli, vel [illegible] dine [illegible] partium, [illegible] vel [illegible] vel [illegible] vel flaver. Coloris varietatem [illegible] longius a cibo, vel [illegible] animal mactetur.

Sapor. 6. *Sapor* [illegible] insipidus. [illegible] vel sal[illegible] dus vel [illegible] vel [illegible] plen[illegible] rare. A[illegible] arthriticis, vel [illegible] & acris, [illegible] stiones, cephalalgiae, aliaque morbi.

Odor. 7. *Odor* singularis, [illegible] in exsiccata lympha.

Utilitas Lymphae & Vasorum. 8. *Utilitas* [illegible] in Anatomiae [illegible] & Medic[illegible] vel [illegible] vel reformata. De Vasis [illegible] & lymphat[illegible] communi [illegible]. [illegible] I. [illegible] numero [illegible] augent, [illegible] vasis [illegible]

1. vehendam [illegible] II. [illegible] Anatomi[illegible]

2. Actione hepatis [illegible] sanguinis conficiendi loco, sententiae [illegible] dant [illegible] Vasi Lymphatica, [illegible] ta Lactea, ex hepate quidem [illegible], sed ex [illegible] limpidum aqueum referunt [illegible] chylum ex [illegible]

3. hepate importatur. III. Aquam [illegible] paratam [illegible] in sanguine abundantem ad cor [illegible], ad crassiorem illius sanguinem [illegible] vel [illegible] diorem temperandum vel [illegible] concoctionem [illegible]

4. movendam, paulatque alias [illegible] IV. [illegible]

5. me [illegible] & lacteis [illegible] V. [illegible] hi [illegible] vasis continua lymphae circulatione [illegible] ex [illegible] liquore admixtum, velut cambium, [illegible] esse potest nutritioni, [illegible] tandem pura aqua sive ad [illegible] sive corporis [illegible], sive [illegible] cavitates, [illegible] vero lymphae pars, quae primo abundat [illegible] [illegible] perfecer[illegible], cedit in nutritionem [illegible]

6. [illegible]. VI. Vasorum actiones accuratius discernere docent, ut vasa sanguinea cruorem, lactea chylum, lymphatica

7. lympham tam puram quam mixtam vehant. VII. Morborum causas & accidentia [illegible] illustrant. Ex lymphae [illegible] vel

vel defectu, vel excessu, vel qualitate vitiata, multi morbi [illegible] & ex Vasorum lymphaticorum vel obstructione [illegible] ruptura. Si deficiat [illegible] sanguis [illegible] [illegible] si evac[illegible] vel nimio [illegible] [illegible] & [illegible], sudor co[illegible] [illegible] palpitatio [illegible], syncope, hy[illegible] [illegible] & [illegible] mala [illegible]. H[illegible] lympha[illegible] [illegible] vel [illegible] elevata [illegible] lympha[illegible] leucophlegmati[illegible]. De his [illegible] Loco de *Morbis Lymphaticis* ex cadaverum sectione VIII. Method[illegible] praesertim in 8.
Hydrope curanda, sudor[illegible] hydrago[illegible], ut, consi[illegible] in *Heraclito* ex pl[illegible] sententias monstratur. IX. [illegible] suis 9.
principiis [illegible] partibus [illegible] vasa sanguinea [illegible] & [illegible] spiri[illegible] ad motum & [illegible] in venas [illegible] & sp[illegible] & [illegible] superfluum ex nervis expurgare dicuntur: alios [illegible] venerunt. Hæc breviter ex multis de Historia & Usu Lymphaticorum Vasorum ex propriis observationibus & aliorum, quotquot post inventa Lymphatica aliquid ad nostra Vasa operæ contulerunt. Plura peti possunt ex Opusculis nostris hujus argumenti, quæ manum pennamque hactenus fatigarunt.

Cap. IV.

DE VENIS HÆMORRHOIDALIBUS.

Venæ Hæmorrhoidales sunt, quæ in ano vel recto intestino abeunt, & extrinsecus etiam conspiciuntur, quæ in nonnullis [illegible] statis temporibus aperiuntur sponte, & sanguinis crassioris fit evacuatio, sanitati multum conducens. *Hæmorrhoides quid. Alberti Anatomicorum error.*

Sunt hæ venæ non unius generis, uti veteres & recentiorum etiam plurimi putarunt sed aliæ *internæ* dictæ, quæ a *Vena porta* oriuntur, aliæ *externæ* a *vena cava*, quibus arte-

rum hæmorrhoidales vel hypogastricæ, & mesentericæ [illegible] [illegible] evacuandi destinatas, quanquam [illegible] per venas [illegible] externas potius [illegible], *Jo. Th. Schenckio* & *Bauhino* contendentibus, & *Glissonio*, qui vasa hæc vas[illegible] vocat.

Internas [illegible] novêrunt veteres, tanquam [illegible] & [illegible] commendatas, & [illegible] [illegible] venæ portæ [illegible] incidi nequeant.

Differ-entia hæmor-rhoida-lium in-ternarũ & ex-terna-rum.

Differunt inter sese venæ hæmorrhoidales internæ & externæ.

I. *Ortu.* Nam oritur *interna*, uti supra dictum, ex venâ portæ, & [illegible] recto [illegible] propaginibus [illegible] amplectitur. [illegible] quando à ramo splenico, quae vas [illegible]. [illegible] vero [illegible] vavit *Cassium*, [illegible] *Vesling*[illegible] ex canna [illegible] *Robertus Flud*, qui ideo ha[illegible] non ex [illegible], sed [illegible] & [illegible] sanguis evacuetur.

Externæ vero hæmorrhoidales *oriuntur* à Cavæ ramo hypogastrico.

II. *Insertione.* Nam *interna* inseritur in recti intestini [illegible] est sanguinem [illegible] requirat [illegible], & per arteriam Cœliacam [illegible] communicatam.

Externa inseruntur in musculosum [illegible] sanguinem requirunt [illegible] & [illegible]

III. *Numero.* Venæ *internæ* [illegible], *externæ* [illegible]plices.

IV. *Contenti sanguinis qualitate.* *Internarum* sanguis est [illegible] & [illegible], *externarum* [illegible], [illegible]

V. *Usu.* *Interna* deplent venam portæ successive, [illegible] vero [illegible] splenicas, & splenis obstructiones levant. *Externa* deplent venam cavam, unde per accidens, primario vero, arteriam magnam, cor, imo eorum evacuatio [illegible] [illegible] & [illegible] *Hippocrates* [illegible] *Cacochymica* [illegible] externæ *plethorica* vel [illegible].

VI. *Profusionis sanguinis copiâ.* *Internarum* fluxus [illegible]

[illegible] *externarum* [illegible] ut [illegible] aut in morbos graves incidant.

[illegible] non adsit *dolor* & [illegible] ano, atq; [illegible]

[illegible] *Internæ* [illegible] non committere oportet [illegible] *Hæmorrhoïdum* & *Rolfincius* [illegible] sententiam [illegible] sanguinis, quæ [illegible] posteriorem [illegible] implantatur.

Externæ [illegible] descendunt [illegible] anastomosibus circa anum.

Cap. V.

De Venæ Cavæ Trunco Ascendente, præsertim Vena sine pari.

Vena cava [illegible] seu *magna* & Maxima, veteribus [illegible] *Aureliano* vena [illegible] corporis nostri, & omnium al[illegible] [illegible] non proveniunt, ex epatis gibba [illegible] *Hippocrati jecoraria* dic[illegible] [illegible] per [illegible] hepatis [illegible] partes, & [illegible] conspicitur, [illegible] superiorem seu adscendentem, & [illegible] seu descendentem, ita tamen ut continuus sit [illegible] *Highmoro* [illegible], ad cordis [illegible] duplex [illegible] *candidus* [illegible] pateat [illegible] claviculas, alter [illegible] per [illegible] magnam [illegible] *striga* [illegible] *cartilagino-* [illegible] transv[illegible] in medio [illegible] obliquæ adstans, [illegible] *valvula* se habet, quæ est velut [illegible], sanguinem fursum assurgentem, [illegible] diaphragma & [illegible] auriculam dirigens.

Truncus Ascendens diaphragma penetrat & per thoracem,

Vena cava quid?

Ejus d. visio in truncus magnum

Striga cartilaginea.

Truncus ascendens quid?

choracem, collum, caput & brachia dissecatur. Fertur autem in vasis usque ad jugulum. Interea autem oriuntur quatuor rami.

Vena diaphragmatis, pericardii, & mediastini.

I. PHRENICUS sive vena diaphragmatica, utrinque una interdum binos ramos ad pericardium & mediastinum emittantur. Per hanc in empyemate pus ferri ad renes & vesicam ingeri posse probat *M. A. Severinus*, quia 1. ad inflammationem diaphragmatis, pus debet quo educere. 2. Mediastini sæpe fac in asthmaticis. 3. eodem modo ofcula aperiuntur. Quod aperiens vena diaphragmatis, quæ ad renes pericardii partes suos ramos deferant sanguinem, & cum eo varia excrementa pus, serum, &c.

Deinde ascendit vena cava per septum, & pericardium perforans insistit ossium medio vertebræ, seque infinuat in dextrum ventriculum cordis, amplo tunc ore, ubi unicum pæ dextræ auriculæ, angitur: ibi vero constrictur.

Cordis vena coronaria Valvula.

II. VENA CORONARIA, quæ aliquando gemina est, cordis basin cingens, ad orificium portatur valvula reditum sanguinis in truncum admittens. Arteriæ communi meatu jungitur, ut ex hac sanguinem accipiat qui ad cavam remeare debet.

P. Gassarius nobilem *valvulam* Rothomagi observatam refert & depingit, in trunco cavæ ascendente juxta venæ coronariæ exortum, eo fine ne sanguinis per venam cavam ascendentis & [illegible] superioribus descendentis fiat confusio. Illam tamen diligenter quæsitam Parisiis non fuisse repertam narrat *Cattierius*. Eandem vero esse, a Lowis descripta.

Deinde pervenit ad umtruncus ascendens denuo perforat & posteriorem somum, nec in suo cordis cavitate, sed gracilis secum invitans, per medium pulmonis divisionem non ascendit per vertebras & thoracis, contiguam gula & tracheæ ascendere ad jugulum. Interea gignit.

Vena sine pari.

III. VENA supra cor in quas ἄζυγος dicta, SINE PARI, quia in dorso & cum conjugem unna est in uno latere habitans, nec in altero conjugem agnoscens. Geminam vero inveniri narrantibus scriptoribus, &c. Et in cadavere sæpe nobis visa, semel utraque, cum loco alterius ac a vena subclavia ramus descendebat.

Oritur ex cavæ parte posteriore, sed magis tamen dextrorsum, & per dextram thoracis cavitatem descendit, costibus contra a sinistro cavæ latere oritur, & per sinistram descendit. In dorso post eius initium, quod est inter quartam & quintam vertebram thoracis, non ad dextrum in

& [illegible] reflectitur [illegible] usque ad octavam vel nonam [illegible] occupare incipit. Observavi tamen [illegible] supra medium [illegible] & [illegible]

[illegible] ad [illegible] intercostalium [illegible] ramos intercostales, qui per *anastomoses* [illegible] cum [illegible] & cum arteriis [illegible] Quare non semper secunda, ut vult *Vesalius*, in [illegible] dexteri lateris vena.

[illegible] ramos.

[illegible] in *pleuritide* [illegible] vel infra [illegible] Hac via [illegible] materia [illegible] arterias [illegible]

[illegible] *dextra* [illegible] per [illegible] quando primos [illegible] vena [illegible] venam hanc erat [illegible]

[illegible] vero [illegible] *Holleriu* & *Amatus*, hanc [illegible] contineantur. Unde & [illegible] cava [illegible] non evacuari venam [illegible] prohiberet. Negat tamen *Fallopius*, quia [illegible] & flatum & sanguinem inde regurgitantem.

Reste tamen [illegible] *Vesalius*, *Pinkenus*, [illegible] invenerunt, [illegible] tres vel quatuor [illegible] ubi [illegible] cavam cedant, quod ex circulatione [illegible] debuit.

IV. Intercostalis Superior utrinque una, quæ [illegible] quatuor superiorum costarum spatia [illegible] quando [illegible] ad omnia costarum [illegible] ramos [illegible]

V. Pneumonica a [illegible] observata, in pulmone [illegible] De qua ex *Botallo* & *Bauhino* [illegible] Sed [illegible] quando adest, varia est origine, quanquam semper à cava sit.

Anastomoses.
Vesalij error de secunda vena in pleuritide.
Pleuritici quomodo per urinas expurgari queant?
In pleuritide vena poplitis sectio cur utilis?
Error Amati Lusitani, & Holleri de valvulis.
Intercostalis.
Pneumonica.

CAP. VI.

DE VENA SUBCLAVIA EJUSQUE RAMIS ET JUGULARIBUS.

Error aliorum Anatomicorū.

RA[illegible] hactenus dictis co[illegible] ascend[illegible] vena cava [illegible] thora[illegible] [illegible] turi, & [illegible] anatomicorum [illegible] ostendi[illegible] [illegible] partes, [illegible] superiorem & [illegible] [illegible] [illegible] [illegible] cephalicam [illegible] in affectibus [illegible] [illegible] [illegible] capitis. Sed ad clav[illegible] dividitur

Error practicorū in vena sectione.

truncus venæ cavæ non in quatuor ramos seu duos ramum utrinque unum, dextrum & sinistrum, qui [illegible] subclavii dicuntur, aliis *Axillares*.

Quamobrem [illegible] interest in affectibus [illegible] [illegible] [illegible] Basi[illegible] [illegible] sive C[illegible] [illegible] Nam æque [illegible] [illegible] venæ cavæ [illegible] [illegible] [illegible] pl[illegible] & [illegible] [illegible] [illegible] conspicua.

Basilica an Cephalica aquādo secanda?

[illegible] affectibus [illegible] tamen capitis [illegible] circulatio contrarium [illegible] [illegible] [illegible] magis C[illegible] [illegible] hanc inseritur ramulus a jugulari externa [illegible] [illegible] [illegible] cadaveribus [illegible] [illegible] [illegible] externæ C[illegible]

Ex vena subclavi[illegible] [illegible] inferiore; & inferiore tam ante, quam post [illegible] ce divisionem quatuor.

I. *Mammaria*, cujus tamen ramus [illegible] do utrinque una, aliquando absque con[illegible] [illegible] [illegible] [illegible] mentionem. Hæc [illegible]

Anastomosis.

[illegible] omosin aliquando jungitur cum ep[illegible]gastrica [illegible] [illegible]

II. *Mediastina*, quæ Mediastinum & [illegible] accedit.

III. *Cervicalis* pro musculis, qui vertebris [illegible] & pro medulla spinali colli.

IV. *Muscula inferior*, pro musculis colli [illegible] & pe[illegible] [illegible] superioribus. O[illegible] hæc etiam [illegible] jugulari externa.

V. *Lacteus Thoracicus* ductus, qui [illegible] subclaviam, [illegible] deberet [illegible] [illegible] [illegible]

VI. *Lymphaticus* ramus [illegible] [illegible] culaque illo, a venarum consortio [illegible]

Subcla

FIGURÆ EXPLICATIO.

Venæ Cavæ per universum corpus præcipuam distributionem proponit.

A Truncus venæ cavæ infra Cor.
B Truncus ejus supra Cor.
C. Foramen quo eadem in Cor hiat.
D D. Rami sub[illegible]
[illegible] [illegible]
E Vena mediastina.
g g. Cervicales.
h h. Vertebrales.
i i. [illegible] Externa.
k k. Jugulares interna.
l l. [illegible]
m m. [illegible] superior.
n n. Rami phrenici.
o o. [illegible] Propagines Cavæ per jecur.
p Scapularis interna.
q Scapularis externa.
r. Thoracica superior.
s. Thoracica inferior.
T. Cephalica.
V. Ejus ramus externus.
X Ejus ramus internus, qui cum parte Medianam constituit.
Z Z. Basilica.
α α. Prima ejus propago.
β β. Secunda propaginis ramus externus.
δ δ. Secunda propaginis ramus internus.
ε ε. Tertia propago, alteram medianæ partem constituens.
ν ν. Salvatella.

Sequentes Characteres designant venas inferiores.

A A. Emulgentes.
B B B B. Spermaticæ.
c c c. Vena glandularum renum.
d d d. Venæ Lumbares.
E E. Rami Iliaci.
f f. Muscula superior.
g g. Sacra.
h h. Ramus Iliacus externus.
I I. Ramus internus Iliacus.
K K. Muscula media.
L L. Vena Epigastrica.
m m m m. Hypogastrica.
n n. Muscula inferior.
o o. Pudenda.
P P. Ramulus Cruralis.
Q q q q. Saphena.
r r. Ischias minor.
s s s s. Muscula.
t t t. Poplitea.
u u. Suralis.
x x. Ischias major.

Subclavius, è trunco, egressus cavitatem thoracis [illegible] tum *axillaris* dicitur, & *scapularis duplex* [illegible] musculos [illegible] externas, & internas, & [illegible] glandulas. Deinde axillaris dividitur in ramum in superiorem seu venam Cephalicam, & in inferiorem seu Basilicam, ut *capite sequente* de venis brachii dicetur.

Ab axillari post divisionem vero à trunco Basilicæ oriuntur duæ venæ.

I. *Thoracica superior* in musculos pectori instratos, & [illegible].

II. *Inferior*, [illegible] aliquando ex thoracica [illegible] natos [illegible] totius thoracis latus [illegible], cujus rami per *anastomosin* junguntur cum ramis venæ [illegible] a thoracem prodeuntibus.

Anastomosis.

A parte superna transit subclavii, oritur primo *Muscula superior*, [illegible] externam in cutem & [illegible] partis colli posterioris. Deinde

Jugulares unde dictæ.

VENÆ JUGULARES [illegible], quæ [illegible] angulo ad colli [illegible] ascendunt, suntque vel internæ vel externæ.

Externa quæ, [illegible] vel in ortu vel in medio [illegible] duplex sub cute sursum repens, prolis est partibus externis capitis, faciei, colli & faucium. Nam sub [illegible] *dividitur in ramum* [illegible] & exteriorem. *Interior* [illegible] culos [illegible] &c. *Exterior* sub [illegible] bis [illegible] bipartitur: una soboles fertur [illegible] ta, nasum & buccas, atque [illegible] medio, cum [illegible] lateris ramo juncta constituit venam frontis, [illegible] solet. Altera per latus fertur ad tempora & occiput. [illegible] simo successu aperit Cordatus *Severinus*, in doloribus capitis, raucedine, respirationis difficultate, pleuritide, dolore [illegible], impetigine, angina, & quod [illegible] vari[illegible]bus. Interim ramuli varie in facie & vertice [illegible].

Jugularis interna in homine ob cerebri copiam major est, contra vero in brutis. *Apoplectica* dicitur & [illegible] latus [illegible]. Ad calvariæ basin [illegible] tingens parte posteriore dividitur in duos ramos. Unus major retrorsum fertur, cum arteriæ Carotidis ramo [illegible] per ossis occipitis foramen, quod pro sexto pari [illegible] vorum [illegible] aperiat. Alter [illegible], per tertii & quarti paris foramen ingressus, in [illegible] abfumitur.

Dorsalis vena à *Rondeletio* notata a prima dorsi vertebra, per summum vertebr[illegible] ad os [illegible] an a thoracis vena, et capitis [illegible], necdum [illegible]

[illegible] Ost [illegible] vero [illegible] *Rhodio* nostro à Spi-[illegible] per musculos serpit, ut ad externas thoracis [illegible]. Hanc [illegible], tetano aperit *Rondeletius*, [illegible] sequutus *Mercatus*, qui non apparente, [illegible] quibus *Rolfinccius* [illegible] *Hippocrates* [illegible] circa [illegible] Datum à metu phthi[illegible], interceptis fluxionibus ad caput vel pectus [illegible].

CAP. VII.

DE VENIS BRACHIORUM ET MANUUM.

VENA AXILLARIS, [illegible] mos ad [illegible] aperto [illegible] minorem seu venam *Cephalicam*, & inferio[illegible] majorem seu *Basilicam*.

Superior dicitur vena *humeraria Cubiti superior*. CEPHA[illegible] [illegible] & [illegible] sive imperitis, sive [illegible].

[illegible] *oritur* è jugulari externa in hominibus semper [illegible], ita tamen [illegible] *jugularis* externa [illegible] in Cephalicam inferatur.

[illegible] superficietenus [illegible] carnosam membranam & [illegible].

[illegible] *ramus externus*, *funis brachii* dictus, ad carpi me[illegible], Ba[illegible] & dein [illegible] carpi [illegible] SALVATELLA, quæ est [illegible] M[illegible] & [illegible]. Ut ope[illegible] *Joh. Bapt. Silvaticus* & nuper *Severinus* proba[illegible] [illegible] potest, non [illegible].

Ramum interiorem Cephalicæ faciunt eum, qui media[illegible] constituit.

BASILICA, alias *cubiti interior*, *Epatica*, *Iecoraria*, &c quia

Observanda in sectione Basilicae.

[illegible] secari solet: sed in sinistra [illegible] cant *lienarem*, quod eius sectio commendetur [illegible] lienis, nulla ratione.

Sed caveant Chirurgi in eius sectione [illegible] [illegible] & tendines [illegible] prosternunt.

Haec vena in plures propagines dividitur, quam [illegible] [illegible] is mediale dividitur in tres [illegible]

I. [illegible] cum brachii nervo, quem quatuor [illegible]

II. Medius & profundus dicitur infra cubiti articulum [illegible] & [illegible] accedentes. [illegible] prospicit pollici, medio & [illegible] [illegible] non [illegible]

III. Subcutaneus ad tuberculum brachii internum distribuitur in ramum anteriorem & posteriorem. Hic [illegible] [illegible] Cephalica [illegible] [illegible] cum [illegible] constituunt [illegible] communis quae dicitur.

[illegible] *Avicennae* [illegible] dicitur media [illegible] [illegible] Alii [illegible] pa[illegible] prodit Media [illegible] pra [illegible] & [illegible] [illegible] *Cephalicam* [illegible] Alteram [illegible] mediam & annularem, aliquando inter medium & [illegible] [illegible] est *Avicennae* [illegible], seu potius [illegible] [illegible] vel [illegible]; ita enim apud Aber[illegible] [illegible] hoc [illegible].

Varietas venarum in manu.

Sed notandum de [illegible] & raro [illegible] habere in [illegible] sinistra raro concordat, sic & [illegible] hominibus [illegible]

Cap. VIII.

DE TRUNCO VENÆ CAVÆ DESCENDENTE USQUE ad crura.

T[illegible] ex hepate [illegible] [illegible] inferior [illegible] superiore pluribus partibus inservien- [illegible] & [illegible] visus contra arteria magna [illegible] [illegible] lumborum vertebram. Interea de [illegible] [illegible].

I. A[illegible] [illegible] tunica & adipe, quarum [illegible] [illegible].

II. Emulgente[illegible] brevi & obliquo ducta [illegible] [illegible] sanguinem [illegible].

III. Spermaticas, de quibus libro primo.

IV. Lumbares [illegible] quidam [illegible] [illegible] [illegible] [illegible] [illegible] contendens ad [illegible] [illegible] & dividitur [illegible] [illegible] [illegible] ramus Iliacus in exteriorem [illegible] musculis [illegible] in coxæ exteriore sede, & [illegible] quæ [illegible] est, nonnunquam [illegible] [illegible] partibus, ut intestini recti [illegible] externæ vesicæ usque collo, pe- [illegible] que collo. Unde venæ, per quas [illegible] menstrua expurgari creduntur, [illegible] quando venæ hypogastricæ [illegible] [illegible] quidem sed [illegible] [illegible] & [illegible]

cent. [illegible] autem bene se habent, ius, per arterias [illegible] [illegible] ex [illegible] apparet [illegible] communi arte [illegible] ad partes vehendi. Riolanus [illegible] [illegible] evacuare [illegible] probat Vesalius [illegible] [illegible] [illegible]

[illegible] antequam peritonæo [illegible] [illegible] & abdominis musculis, pars præcipua [illegible] sub musculis rectis ad mammariam, quibus [illegible] sæpe circa umbilicum.

II. *Pudenda* [illegible] pudendis in viris & fœminis [illegible]

III. *Muscula* [illegible] vadens coxen [illegible] sedem pro ejus loci musculis & cute.

Postea ejus rami crurales dicuntur.

CAP. IX.

DE VENIS CRURALIBUS.

VENÆ CRURALES, uti & [illegible] & nervi [illegible] tes in femoris plicatura, frequentius [illegible] [illegible] amicitiam ergo. [illegible] [illegible] sex sunt.

I. SAPHENA [illegible] in pede [illegible] [illegible] longa est & [illegible] [illegible] [illegible] & membranas [illegible] ad genu, & per tibiæ internam partem [illegible] [illegible] internum. [illegible] superioris partes [illegible] versas, præcertim post cum varie distri[illegible] circa malleolum in affectibus uteri, præser[illegible] [illegible] & Gonorrhœa, [illegible] revulsionem sanguinis copiosius al[illegible] [illegible] ad magis [illegible] Aperienda vero ubi magis conspicua, sive in dorso pedis sive in latere.

II. ISCHIAS MINOR [illegible] Est enim [illegible] & brevis [illegible] externam & [illegible] in coxendicis [illegible] & ejus loci musculis.

III. [illegible] inter musculos jacentes, Musculi [illegible] genitalem & inguinis, [illegible] musculos in femore sitos.

IV. POPLITEA ex duplici ramo crurali [illegible] conficitur & sub

[illegible] recta posit[illegible] per medium popl[illegible] flexum ex[illegible] [illegible] calcaneo [illegible] [illegible] externo ca[illegible] [illegible] potarias vulg[illegible] [illegible]quenter abante [illegible] [illegible] *P. Paulus Magnus* Chirurgus Romanus secuit. Sed cum profundissima sit, & [illegible] videtur [illegible] secari [illegible] [illegible] propter eam, præsertim cum *Galenus* in hu[illegible] [illegible] sit, & venam appellet modo in poplite, [illegible] [illegible] [illegible] venam [illegible], qu[illegible] [illegible] [illegible] & conspicua satis [illegible] [illegible] [illegible] est.

V. Suralis dicitur, quæ magna vena; & dividitur [illegible] num exteriorem minorem, & interiorem ma[illegible], & [illegible] quilibet in exteriorem & interiorem. D[illegible] [illegible]. In pede [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] sub cute con[illegible] [illegible] con[illegible].

VI. Ischias Major partem dat suræ musculis, [illegible] [illegible] decem propagines abs[illegible]tur, singulis digitis binas [illegible].

N[illegible] de his omnibus: 1. Omnes ramos hos, varios ad [illegible] musculos extrinsecus mittere, cutaneos dictos.

2. Omnes hos ramos diversimode se habere [illegible] [illegible] [illegible] in brachiis dictum, neque in ejusdem homi[illegible] [illegible] eandem semper [illegible] venarum esse.

3. [illegible] non adeo magnum [illegible] [illegible] venarum [illegible], [illegible] [illegible] venarum pedis [illegible] [illegible] [illegible], & [illegible] [illegible] [illegible] [illegible] [illegible].

ANATOMIÆ BARTHOLINIANÆ LIBELLUS II. DE ARTERIIS

Respondens

LIBRO II. DE MEDIA CAVITATE sive THORACI

CAP. I.

DE ARTERIIS IN GENERE.

Arteriæ [illegible] Galeno [illegible] & [illegible] [illegible] Galeno [illegible] monis vocat [illegible] Hippocrates arterias [illegible] vocat [illegible] do [illegible] aërem, [illegible] & [illegible] [illegible] quæ [illegible]

Est [illegible] Arteria [illegible] [illegible] cavum [illegible] [illegible] ad partes [illegible] nes [illegible] & [illegible] vitalem [illegible].

Efficiens [illegible] proprietate [illegible] generans, quæ [illegible] dici potest.

Materia [illegible], est semen [illegible] & [illegible] der [illegible] Hippocrates [illegible] est principium originis.

[illegible] est cerebrum, ut Pelops Galeni præceptor voluit, sed cor, ex consensu omnium Philosophorum & Medicorum [illegible] producunt [illegible] [illegible]

[illegible] *Archi*[illegible] [illegible]

[illegible]

[illegible] Tertia [illegible] causa [illegible]

[illegible]

II. Quaeritur [illegible] perpetuo [illegible] Curabi lis [illegible] non ar- [illegible] teria.

[illegible] Hoc [illegible] duratione [illegible]

[illegible] Nam *primo* [illegible] quae siquidem [illegible] rumpantur, necess[illegible] partes detrahitur. Istae autem [illegible] omni eo quod impellitur, [illegible] *Circularem*. *Deinde* quoque [illegible]

[illegible]

Quarto, [illegible]

[illegible] & [illegible]

cor sangu[illegible] per [illegible] tibus accessis iterum per venas continuo [illegible]

Pulsus à quibus causis fiat.

Motus [illegible] arteriarum Pulsus [illegible] facultate, [illegible] la [illegible] Primarius [illegible] per [illegible] Galenus [illegible] est [illegible] Me[illegible] per [illegible] m [illegible] quam [illegible] teq[illegible] prout [illegible] za[illegible], ita & arteri[illegible] parte ad [illegible] [illegible], circa cap[illegible], atque ex [illegible] fieri volunt ex *sanguine*, eoque vel ebullit[illegible] sum, vel rarefacto, ut *Cartesiani* vel puro [illegible] *Harvejus* probavit. aut utroque sanguine im[illegible] & [illegible] ta[illegible] plecti [illegible]. Nam [illegible] pell[illegible] expellit magnam sanguinis copiam, ut Cap[illegible] de *Corde* [illegible] monstravimus. 2. [illegible] imple[illegible] arterias & [illegible] pul[illegible] docet arter[illegible] [illegible] bus aliquam Langerneu[illegible] videre digit[illegible] latatur. 3. In arteriotomia sanguis exsilit [illegible] sicut ex corde. 4. A tertiæ descendentis portione [illegible] bus cruralibus ramis spithamæ longitudine [illegible] que [illegible] *Harvejus* [illegible] per [illegible] pedes [illegible] Aorta [illegible] In [illegible] solebat integra arter[illegible] [illegible] admodum alias solebat integra arter[illegible] [illegible] 7. A[illegible] experimentum [illegible] nistrat *Harvejus* ex [illegible] vel [illegible] siccatis, inflatis & aqua repletis [illegible] te[illegible] pulsa & vibrata [illegible] sa, [illegible] & [illegible] *Facultatem* ta[illegible] [illegible] a corde communicatam, cujus ope [illegible] & [illegible] quia 1. [illegible] alioq[illegible] p[illegible] 2. Arter[illegible] om[illegible] s[illegible] [illegible] con[illegible] autem [illegible] succes[illegible] arter[illegible], commovet[illegible] pa[illegible] te[illegible] in[illegible] *Harvejus* [illegible] & [illegible] sanguinis corpore[illegible] q[illegible] potest [illegible] Facultates [illegible] vitalis [illegible] omnes

partes

[illegible] est per [illegible] instar [illegible] luminis. De [illegible] plu-
[illegible] *Cardo* [illegible] *Cæcum* obscure move-
[illegible] velocior cessat [illegible]
[illegible] hoc experimento alter
[illegible] *Harveus* & *Walæus*.

[illegible] quando Cor constrin- [illegible] disseda [illegible] *Erasistrato* [illegible]

An arteria forma cum Corde dilatantur.

Forma ex accidentibus patet; hæc arteriæ forma sub-
[illegible] toto.

Situs [illegible] semper [illegible] venis, quo tutiores sint,
[illegible] non tantum in partibus externis, sed & internis, [illegible]
[illegible] excep[illegible] postquam enim ve-
[illegible] cava & aorta a diaphragmate descendentes regionem
[illegible] præteriere, cava [illegible] aorta [illegible] per totam
[illegible], donec abdominis [illegible]
[illegible] cava recumbit. [illegible] quod metus [illegible]
[illegible] cava [illegible]
[illegible] donata, tali motui resisteret.

Magnitudo. [illegible] est arteria [illegible] ma-
[illegible] memoriam.

Magnitudo.

Numerus [illegible] est, quam [illegible] celer est san-
[illegible] conge-
[illegible] post [illegible]
[illegible] venis [illegible] phœum tu-
[illegible] etiam [illegible] arteriæ carotides & cervi ca-
les in cerebro & cerebello.

Figura sunt instar canalis vel fistulæ, teretes, rotundæ &
longæ.

Meatus. Quædam arteriæ in [illegible] terminantur, per
quas fit expulsio excrementorum, quædam ora habent in

 cutim

[illegible] quoque fit, & [illegible] offis [illegible] carne, [illegible] arteriola perculsa, [illegible] forsan & vulnerat [illegible] de in tohdum [illegible]

Arteriæ an sentiant? *Membranæ* [illegible] minus à vicinis partibus, quando sunt extra [illegible] sculos, & tales arteriæ, quæ adjunctam habent [illegible] nervos recipientem, sentiunt, unde *Galenus* [illegible] flammam, item sentire atque dolere arterias [illegible] tetion. expertus est quidam Patavii, qui [illegible] bant [illegible] conquerebat. Aliæ vero arteriæ [illegible]

Substantia. *Substantia* arteriarum *membranosa* [illegible] prima pel [illegible] vena [illegible] *Falloppius* [illegible] nt, quod & *Veslingius* [illegible]

Tunicæ quot? ca cor sensis vidi, uti & *Harveyus*. [illegible] tam non carnea, a septo cordis [illegible] stat vero *duabus tunicis* pecu[illegible]

Exterior tenuis est, mollis & rara, uti vena [illegible]

A[illegible] *interior* [illegible] & [illegible]

[illegible] Unde *Herophilus* dixit arterias venis [illegible] crass[illegible] [illegible] perpetuo, & [illegible] evanescerent [illegible] evapo[illegible]

Arteriotomia an & quando usurpanda? sus & vaporosus intus contentus. H[illegible] profunditatem & tunicæ crassitiem. [illegible] ex antiquis *Oribasius*, *Ægineta*, *Aetius* [illegible] nus *Avicenna*. [illegible] *Galenus* [illegible] a calido sanguine vapori[illegible] plena, & [illegible] dolore. In Phrenitide id genus remedii [illegible] *narolus* [illegible] atque in Ægypto [illegible] [illegible] *Paraus*. Magno [illegible] Neap[illegible] *Marcus Aur. Severinus* & [illegible] *Petrus* [illegible] & [illegible] pit [illegible] arterias [illegible] [illegible] plenum vaporosus calidusque sang[illegible] fertur, ac per exteriores quæ referantur [illegible] venas [illegible] Sed [illegible] pro[illegible] certissimum est, extremo [illegible]

curationis gratia [illegible] Evacua[illegible] per arterias exteriores nonnihil antecedente causa, [illegible] Adhæc [illegible] apparuit. Monet *Riolanus*, [illegible] ceptte, & manu supra carpum [illegible] sanguinis evacuationem supra [illegible] Frustranea tamen admo[illegible] patent. Commo[illegible] docet *Jacobus Mebrenius*, [illegible]
[illegible] etiam habet tunicam in interna superficie [illegible] apparentem, ut [illegible] A pleura & peritonæo hæc accedit. Ad [illegible] insigniores ramificationes quandoque fibras transversas [illegible] *Marc. Hofmannus* [illegible] repagula [illegible] & nimiam [illegible] dilatationem prohibeat. Carent enim [illegible] quamvis illarum necessitas [illegible] corpus simul incipiens & desinens [illegible] arteriis [illegible] *Cartesium* [illegible]
[illegible]

CAP. II.

DE ARTERIÆ MAGNÆ TRUNCO ASCENDENTE.

D[illegible] semper comi[illegible] supra [illegible] venarum disseminatio.

ARTERIA MAGNA [illegible] crassa, aliarum arteriarum ma[illegible] ex [illegible] cordis [illegible] egreditur, ubi intra pericardium de se pro[illegible] arterias, *Coronariam*, basin cordis ambientem, modo simplicem, modo [illegible] capitulum cordis egressa, [illegible] cum ascendentem minorem, & descendentem majorem.

TRUN

TRUNCUS MINOR ET SUPERIOR [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] phorem, & sinistrum [illegible] oblique [illegible] brachium accedentem. Hunc [illegible] in sinistro [illegible] [illegible] [illegible] censent.

[illegible] totus [illegible] thymo [illegible] [illegible] *superatus* [illegible] [illegible] [illegible] [illegible] *R[illegible]* [illegible] [illegible] [illegible] ego observav.

A[illegible] *[illegible]* [illegible] [illegible] ex parte [illegible] [illegible] *intercostales superiores* ad tria vel quatuor [illegible] superiorum costarum, ex parte superiore. 1. *Mammariae.* 2. *Cervicales.* 3. *Musc[illegible]*

A[illegible] antequam [illegible] [illegible] parte [illegible] [illegible] *thoracica* [illegible] *thoracica inferior, & scapularia* [illegible] parte superiore [illegible] [illegible] ex axill[illegible] [illegible] brachium accedit.

CAP. III.

DE ARTERIIS CAROTIDIBUS.

ARTERIÆ CAROTIDES à dextra [illegible] propagatae, [illegible] venas dextri brach[illegible] [illegible] [illegible] das in mo[illegible] [illegible] suadet *Highmorus* [illegible] ascendunt ad caput recta secantes tracheae lat[illegible] [illegible] internis connexae: nam externae venae non [illegible] [illegible] [illegible] venae tamen jugula[illegible] [illegible] & [illegible] [illegible] est nervus sextae conjugat[illegible] [illegible] *Riolano* [illegible] ad fauces veniant antequam cranium [illegible] ramulos laryngi & linguae [illegible] exteriorem & interiorem.

Exterior [illegible] [illegible] [illegible] buccis & [illegible] musculis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] inter [illegible] intrantes pro labio & omnibus [illegible] [illegible] [illegible] [illegible]. Alter ad temp[illegible] [illegible] [illegible] & [illegible] musculos.

Interior ad ossis sph[illegible] [illegible] sellam sub dura matre [illegible] [illegible] [illegible] [illegible] duram matrem pertinent [illegible] [illegible]

partem de se mittit [illegible] propaginem. 1. *Minorem* cum nervo optico ad oculos. 2. *Majorem* ad glandulam pituitariæ sedis [illegible] scendentem, & per piam matrem cerebrique substantiam [illegible].

A[illegible] magis [illegible] Caroticum habet *Willisius*, deque illis multa erudita *Ruysmerus*.

Cap. IV.

De Arteriis Totius Manus.

Arteria Axillaris per brachium defertur inter [illegible], cum vena & nervo [illegible] ad [illegible] quartam [illegible].

[illegible] in duos ramos insignes, superiorem & inferiorem.

[illegible] medius ad carpum recta fertur, ubi [illegible] ligamento [illegible] Manus exp[illegible], [illegible] ramos imperti- progrediens, digitis pollici, [illegible] & [illegible] ramos impertitur.

Pulsus ubi explorentur?

Inferior ulnam percurrens ad carpum, prospicit medio & [illegible] & [illegible] carpum pergit, ubi arte- [illegible] musculis, [illegible] praebens. [illegible] occultatas.

Cap. V.

De Arteriæ Magnæ Trunco Descendente.

Truncus *aortæ* Descendens [illegible] reflectens, major est, quia de se ramos spargit in ventrem medium & infimum, nec non in crura.

In thorace vel medio ventre à trunco majore duæ arteriæ [illegible].

1. *In intercostales inferiores*, ad octo costarum inferiorum [illegible] & [illegible]. Nam [illegible] contingit [illegible] habere com[illegible] sine parte, à trunco [illegible] intercostales, si *Spigelio* credimus, pus & [illegible] connecta[illegible] arteriam magnam assumitur, [illegible] per ramos emulgentes ad vesicam deportatur. Cui [illegible] ratio, quia brevior via & per arterias [illegible] congesta [illegible] naturalem [illegible] sanguinis [illegible] sequi pus, quam venosa.

FIGURÆ EXPLICATIO.

Arteriæ magnæ seu aortæ per universum corpus distributionem delineat.

A. *Principium arteriæ magnæ è corde assurgens.*
B. *Truncus ejus ascendens, à Recentioribus dictus.*
C c. *Arteria subclavia, ab utroque latere.*
d d. *Carotides arteriæ, quæ duos producunt*
e e. *Ramum exteriorem.*
f f. *Ramum interiorem.*
g g. *Arteriæ vertebrales seu Cervicales.*
h h. *Musculæ.*
i i. *Mammaria.*
k k. *Intercostales superiores.*
l l. *Scapularis interna.*
m m. *Scapularis externa.*
n n. *Thoracica superior.*
o o. *Thoracica inferior.*
P p. *Rami axillares ab humero.*
Q q. *Superior ejus ramus per brachium ad carpum descendens.*
R r. *Inferior ejus ramus eodem ad manum abiens.*

Sequentes Characteres designant arterias à Trunco descendente ortas.

D. *Truncus arteriæ descendens.*
a a a a. *Intercostales inferiores.*
b b. *Phrenica.*
C. *Arteria Cœliaca.*
d. *Ejus ramus dexter.*
e. *Ramus ejus sinister seu Arteria splenica, ramusculis per Lienem sparsa.*
f. *Gastrica arteria dextra.*
g. *Arteria gastroepiploica.*
i. *Arteria epiploica.*
k k. *Arteria Mesenterica superior.*
l l. *Emulgentes arteriæ.*
m m. *Spermaticæ.*
n n n n. *Lumbares.*
o o. *Mesenterica inferior.*
p p. *Rami arteriæ Iliaci.*
Q q. *Arteria Iliaca externa.*
R r. *Iliaca interna.*
S. *Arteria sacra.*
t t. *Arteria hypogastrica ad rectum intestinum & pudenda.*
u u. *Hypogastrica ad uterum porrecta.*
X X. *Arteria Umbilicalis.*
Z Z. *Arteria Epigastrica.*
Δ Δ. *Arteria cruralis.*
α α. *Arteria pudenda.*
β β. *Musculosa inferior.*
γ γ. *Arteria musculosa cruralis externa.*
δ δ. *Musculosa cruralis interna.*
θ θ. *Poplitæa arteriæ ramus.*
ε ε. *Suralis ejusdem ramus.*
λ λ. *Rami qui in pede in ejusque digitos absumuntur.*

OSPEDALE
CONSOLAZIONE

OSPEDALE
[illegible]ZIONE
BIBLIOTECA

II. *Phrenica* pro diaphragmate & pericardio.

Reliqua pars trunci septi fissuram penetrat, & ramos per infimum ventrem spargit, quorum alij comitantur ramos venæ portæ, alij ramos venæ cavæ. Qui comitantur ramos venæ portæ, sunt tres

Cœliaca arteria. Mesenterica superior & inferior.

Cœliaca [illegible] ita dicta quod plurimos ramos mittat ad ventriculum, [illegible] *dividitur in ramum dextrum* [illegible] *sinistrum* [illegible] polica accedentes venæ [illegible]

Dexter [illegible] cavum accedens & non nihil progressus [illegible] & [illegible] *epiploicum* [illegible] venæ portæ [illegible] Postquam ex ramo dextro [illegible]

Sinister, vel [illegible] major est, ne facile obstruatur a crassis [illegible] sanguinem vitalem [illegible] arteria [illegible], de [illegible] quo vena splenica, ramos spargit.

Mesenterica Superior [illegible] *Arteria mesaraica.*

[illegible], & *arteriam mesaraicam* [illegible]

[illegible]

[illegible] auctor est *Spigelius* [illegible] Arterias Mesaraicas [illegible] chylum trahant quibusdam visum. 1. ex ductu. 2. [illegible] 3. contentio. 4. Auctoritate *Galeni* 4. de usu Part. c. 17. & [illegible] sang. c. 5 quem *Hofmannus* sequitur. At [illegible] non potuerunt, quia chylus nunquam in illis [illegible] & [illegible] recipiunt ex partibus nihil, sed partibus [illegible] communicant. Nec trahunt ad cor, ut vult *Varolius*, nam obstant valvulæ & Chylus per proprias vias, thoracicarum lactearum ad cor accedit. Neque [illegible] vel lienem, ut [illegible] placet, quia ad lienem nonnisi vitalem sanguinem arteriæ splen ex vehunt, & jecori unica [illegible] arteriola. Neque ex arteriis rectum restituitur in venas, ut *Spigelius* arbitratur, ita enim frustra [illegible] operam [illegible]. Neque ad [illegible] chylum hunc deferunt, quia per arterias adscendit nihil, omne ad partes descendit. Ergo 4. *verus usus* arteriarum *Mesaraicarum* ex

principus

prius [illegible] *Venæ* est sanguinem arteriosum [illegible] deducere pro earundem nutritione. Quam [illegible] monstrant ligaturæ in vivis. [illegible] in tumorem attollantur versus [illegible] & [illegible] quæ apparent versus intestina, quæ [illegible] superfluumque per venas mesaraicas [illegible]

An sanguis abdominis circuletur. Circulariter enim movetur [illegible] Cœliaca & Mesentericas [illegible] suo per succos motu, quia

1. [illegible] pro in corde & in reliquis [illegible] [illegible] gens.

2. [illegible] impulsus [illegible] [illegible] Mesaraicas & [illegible] mala [illegible]

3. [illegible] quod [illegible] hoc monstrant.

4. Valvulæ in ramo splenico observatæ *Harvejo*, [illegible] per venam portæ [illegible]

Ad [illegible] notandum.

1. Sanguinem venæ Portæ non esse adeo [illegible] cum [illegible] cavæ conferatur, [illegible] quam [illegible] ut ab hepate & corde purior reddatur.

2. In hepate [illegible] anastomoses [illegible] venarum portæ & cavæ [illegible] in cadavere non [illegible] appareant [illegible] in parenchyma hepatis.

3. [illegible] hypochondrio [illegible] Cœliacæ [illegible] *[illegible] & Mercatum* [illegible] hypochondrio [illegible] palpitatione [illegible] exemplum [illegible] *Zal*[illegible] refutata, apud *Slegelium* [illegible]

INTERIOR in [illegible] partem.

A [illegible] vero alia, quæ cavæ [illegible] mesentericæ [illegible] Venas [illegible] Mesentericam superior, [illegible] Mesentericam inferior, [illegible] Lumbares [illegible] venas duas [illegible] Mu[illegible] perior.

[illegible] vero *Aorta* ad [illegible] venam [illegible]

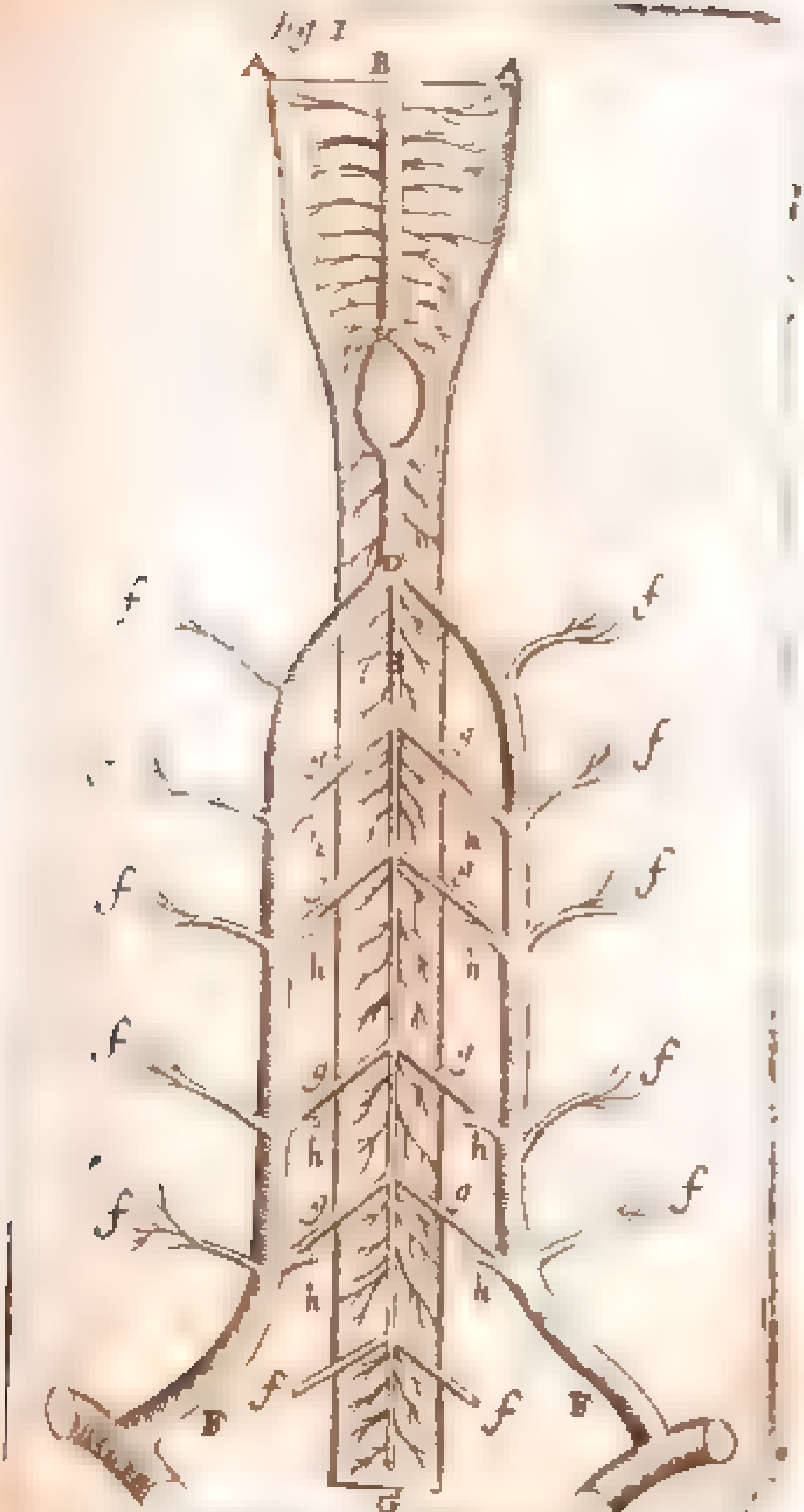


Fig. I
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co[illegible] & [illegible] perpetuo suo motu [illegible] praeterea [illegible] [illegible] nae efficiat [illegible], & hoc [illegible] dicitur

Iliaca, ubi [illegible] tollitur cavae in duo [illegible] cos. & horum quilibet in ramum interiorem [illegible] exteriorem majorem, ad crus [illegible].

Sed antequam crurales fiant, [illegible] propagines. *Sacram* statim sub bipartitione [illegible] *inferiorem in hypogastricam* [illegible] *stricam* & *pudendam* [illegible] arteriae in crus fertur, & constituunt arterias crurales.

CAP. VI.

DE ARTERIIS CRURALIBUS [illegible] AR[illegible]

EX arteriis cruralibus [illegible] VARIAE.

Supra [illegible] à trunci parte exteriore, *musculis crura-libus externis*, ad musculos [illegible] *musculis cruralibus internis*, [illegible] haec ad genu cum hypogastricae ramulo miscetur.

Sub poplite oriuntur tres rami.

[illegible] *poplitaeus*, in musculos [illegible] posteriores [illegible]

2. [illegible] & [illegible]

3. [illegible] pedis [illegible]

EXPLICATIO FIGURAE [illegible]

[illegible] A [illegible] ramificationes [illegible] [illegible] parte [illegible] [illegible]

A A. *Medulla oblongata poste-rior regio.*

B. *Communis ductus ab utris-que arteriis vertebralibus [illegible].*

C. *Figura Rhomboides quam in [illegible] gemina vertebra-lium arteriarum [illegible].*

D. *Arteriarum vertebralium supra medullam spinalem [illegible], qua loco ar-teria spinalis descendit.*

E. *Arteria spinalis.*

F. *Quae arteria vertebrales [illegible] à ramis axillaribus profi-[illegible].*

G. *Medulla spinalis.*

f f f f, &c. *Surculi arteriosi in [illegible].*

[illegible] *Surculi [illegible] spinalem [illegible] [illegible] in arteria [illegible] in [illegible] vertebrarum [illegible].*

h h h h. *Surculi arteriosi qui [illegible] canales [illegible] plexum arteriarum consti-tuunt.*

t t. *Duae arteriae in [illegible] aortâ dimissae.*

ANA

ANATOMIÆ BARTHOLINIANÆ LIBELLUS III. DE NERVIS.

Respondens

LIBRO III. DE CAPITE.

CAP. I.

DE NERVIS IN GENERE.

N[illegible] al[illegible] de ligamento [illegible] ab anti-[illegible], [illegible] *[illegible]* [illegible]. Proprie vero [illegible] de organo [illegible] cum [illegible] facultatem mo-[illegible] & [illegible], ut ab *Aureliano* [illegible].

Nervi significationes.

Nervus [illegible] est organum [illegible] & te-[illegible] [illegible] animalis vector spiritu animali in par-[illegible].

Nervus quid?

Efficiens est vis nervifica.

Materia Hippocrati est seminis pars glutinosa & frigida, [illegible] & *Galeno* est materia [illegible] [illegible] hoc est principium organis.

[illegible] pars, [illegible] nervo-[illegible] oblongata, [illegible] pars [illegible] est [illegible] in spina. Intra cranium [illegible] a cerebro oriri, septem nervorum [illegible] spina [illegible] Et hæc verissima sententia nō [illegible] & ner-[illegible].

Nervorum principium.

Aristotelis [illegible], quem [illegible] *Alexander*, *Averroes*, & *Aponensis*, [illegible] medullato cerebro.

Aristotelis error.

Ali[illegible]

Alii voluerunt nervos nihil esse [illegible] & arterias continuatas, & in nervos [illegible] *Praxagoras* [illegible] *Cassiomus* & [illegible] *manus* & *Martianus*, sed minus bene; quum [illegible] arter[illegible] nervo[illegible] per [illegible] continuett [illegible] 2. læsa vel secta [illegible] capite [illegible] nem non excitet. 3. dissectus nervorum in cer[illegible] [illegible] arter[illegible]um in corde, videatur.

[illegible] a cerebro [illegible] subintra. Ex cerebro ratione Formæ, seu quat[illegible] [illegible] præbat *formam Nervis* [illegible] efficere [illegible] quæ apparent oculis. 2. ex maniacorum & [illegible] [illegible] morbus [illegible] paroxysmo [illegible] dissectis [illegible] cerebro [illegible] [illegible] sanguinem cerebro suppeditat [illegible] membranosis, quo spiritus animalis restaura[illegible] tur; ad hæc etiam nervis arterias, ut cerebro [illegible] [illegible] nervorum corpora [illegible] [illegible] arteria[illegible] & venarum [illegible] [illegible] nervo[illegible] vasis dist[illegible] esse non inficiatur.

[illegible] producere.

Hoc [illegible] *Galeno* [illegible] medic[illegible] compl[illegible] nervos [illegible] cerebro [illegible] spin[illegible]. Quos [illegible] [illegible] *membra*.

Nervorum usus. [illegible] & usus est, facultatem animalem cum spiritu ani- mali a cerebro acceptam [illegible] canal[illegible] deferre ad partes.

1. Sensor[illegible], ut oculos, [illegible], &c.
2. Motorias, ut musculos, ad motum.
3. A[illegible] [illegible] & digno- sc[illegible], quæ dolorem [illegible].

[illegible] nervi [illegible] vel [illegible] vel [illegible] [illegible] privatur illa pars sensu & motu.

Quomodo [illegible] motum & sensum faciant [illegible]

situ per filamenta nervorum a cerebro ad partes singulas [illegible] partes [illegible] [illegible] [illegible] [illegible] escant.

[illegible] *dent* par [illegible] vel *motum*. [illegible] partes distribuuntur [illegible] vel ex *motory* [illegible] motores non sunt. Ut [illegible] nervi motorii [illegible] *sensorii* [illegible] Item saepe [illegible] partes [illegible] & motum [illegible] cerebri, [illegible] [illegible] Alterum vero par [illegible] motorium [illegible] motum, [illegible] musculos oculorum abeunt. *Nervi* [illegible] *sensorii* [illegible] *generāt.*

Situs nervorum securitatis gratia est magis profundus quam arteriarum. *Situs*

Magnitudo varia est, pro organorum conditione & actionum [illegible] necessitate atque magnitudine. Optici maximi [illegible] oculorum actio [illegible] Sic crassiores sunt [illegible] & partes [illegible] tenues [illegible] Minimi [illegible] musculis. *Magnitudo.*

Numerum [illegible] esse vulgo *triginta septem* paria, septem [illegible] a cerebro, quae nos dicimus omnino a cerebro [illegible] oblongata intra cranium, & triginta a medullae [illegible] spinae. Septem vero illa paria nos rectius [illegible] decem esse [illegible] ut patebit *sequenti capite*, & ita nos *quadraginta paria* nervorum faciamus, *decem intra cranium* [illegible] & triginta *extra* in spina. *Numerus.*

Primum veteres septem tantum fecere, & quidem a cerebro [illegible] hoc versu [illegible]:

Optica [illegible] *tertia* [illegible],
Quartum [illegible] *facies est* [illegible] *lingua.*

[illegible] par [illegible] & [illegible] paria, *Archangelus* octo statuit paria, *Casserius* novem, nos decem, ut dicetur infra.

Triginta vero paria medullae spinalis ita dividuntur, ut septem

septem sint *cervicis* seu colli, duodecim *thoracis* seu dorsi, [illegible] *lumborum* quinque, [illegible] esse [illegible] sex.

[illegible] *partes nervorum, vel vocat* conjugia vel *conjugationes*. Et [illegible] Medi[illegible] [illegible] est, [illegible] partibus [illegible] [illegible] motus ve[illegible] [illegible] vel [illegible] [illegible] facie, [illegible] utero, vesica, &c.

Usus in Medicina hujus doctrina.

Nervus sine pa[illegible]

Praeterea [illegible] [illegible], quemlibet ner[illegible] vum habere [illegible] vel [illegible] [illegible]

Caret ner[illegible] vi absque cavitate.

Figura [illegible] [illegible] canalium, sed absque cav[illegible] [illegible] [illegible] & arteriae [illegible] nervi solum spiritum absque sanguine.

Excipit *Riolanus* [illegible] [illegible] quod tamen de ligamentis cavis [illegible] Patre in A[illegible] [illegible] versatus, & [illegible] *rentius* est [illegible] [illegible] nervos cavos testatur. *Galenus* [illegible] opticos, quos vult cavos esse & perforatos [illegible] quae manifeste: ad quod [illegible] esse, videlicet, at 1. A[illegible] mortem [illegible] 4. [illegible] dus. Tria [illegible] tro [illegible] nervus, ut compr[illegible] [illegible] *Galeno* [illegible] *Gemma*, qui porum magis [illegible] internae nervorum cavitati tribuit.

An optici nervi cavi?

Ab [illegible] conspicuam putant [illegible] nervis [illegible] apud *Galenum* [illegible] *Spigelius* [illegible] meatus [illegible] vorum [illegible] evanescere. Vid & ego cavitatem & [illegible] in cadavere postquam [illegible] ingressum.

Omnem vero talem cavitatem contra *Galenum* [illegible] vis [illegible] *Vesalius*, *Eustachius* & *Coiterus* [illegible] quae experientias producant, quae non [illegible] [illegible] supra positas, servat [illegible]

O[illegible] quoque cavitatem *Vi[illegible]* tribuit, [illegible]

males [illegible], sed pro sero itarum transitu.

Re[illegible] omnes nervi carent manifesta cavitate, instar [illegible] habent *Poros*, per quos [illegible] spiritus [illegible] corporum [illegible]. Duplices sunt [illegible] *Hoogelande minores & majores* Per illos trā[illegible] ad movendum partes, per hos [illegible]. Neutrum sensus discernit. Nec duplices in [illegible] Porias crediderim pro cujusque partis in[illegible], & voluntatis imaginationisque arbitrio, jam [illegible] per majores, jam minus per minores ferri, [illegible] seu copiosius seu minor influxus efficit.

[illegible] praeterea nervi omnes, nullo excepto, ex multis fibris [illegible], vel filamentis sibi [illegible] Ego cum *Joh. Leoniceno* Anatomico [illegible] nervorum truncum prope cor [illegible] cavitatem [illegible] ostendere, infinito [illegible] instar, constantem, quam [illegible] continuum sit corpus & fibris cohaerentibus & continuis.

Cartesius nervos singulos ex pluribus *tubulis* componi [illegible] exterior & interior [illegible] involucros, quae con[illegible] matribus cerebri. Singulis his tubulis [illegible] quae plurimis tenuibus *filamentis* ex [illegible] cerebri [illegible] constat, quorum ex[illegible] tates [illegible] altera quidem parte [illegible] superficie in[illegible] ventriculos respicit, altera vero parte [illegible] & c[illegible] in quibus tubulus [illegible] fila[illegible] ci[illegible] Non [illegible] tubulos [illegible] quam spiritibus animalibus [illegible] satis re[illegible] quod ex cerebro defluunt in musculos, ad [illegible] qui totidem nervi censent [illegible]

F[illegible] productionem esse nervorum [illegible] *B[illegible]*, sine consideratione substantiae [illegible] Quod confirmat observatione *Paveus*. At mar[illegible] nervis actu[illegible] observatur, quae a [illegible] processu ob [illegible]

Q[illegible] supponit [illegible] non demonstratio ocu[illegible] *Cartesius* [illegible] placet tamen [illegible] facile [illegible] motum & [illegible] ex eodem [illegible]

[illegible] mirum [illegible] nervi [illegible] per totum [illegible] organis *Tactus*, pro ratione [illegible] tanto impetu trahantur, ut [illegible]

motu co[illegible] in cerebro excitabitur, [illegible] concipere [illegible] [illegible]. Si [illegible] [illegible] [illegible] [illegible]. Separa filamenta [illegible] [illegible] [illegible], [illegible] levia & polita [illegible] [illegible], sed [illegible] post [illegible] [illegible] [illegible] [illegible] sensum percipit, si [illegible] [illegible] [illegible] frigoris sensus [illegible] [illegible].

2. Filamenta nerv[illegible] [illegible] gustus [illegible] [illegible] [illegible] & membran[illegible] [illegible] involuta. Q[illegible] vero [illegible] modis [illegible] [illegible] [illegible] *apere* [illegible].

3. Filamenta ad *nasum* pro odore, a [illegible] [illegible] [illegible] [illegible] [illegible] nervi [illegible] [illegible] posse, quia [illegible], & ab [illegible] magis [illegible] afficiuntur per aerem in [illegible].

4. Filamenta *aurium* esse [illegible], ita *disposita* ut om[illegible] [illegible] & eodem modo [illegible] [illegible] [illegible] [illegible] [illegible], quibus aer externus per tympan[illegible] [illegible] moveat.

5. Visum dependere a duobus nervis, qui ex [illegible] [illegible] [illegible] [illegible] [illegible] numero componit. [illegible] quibus [illegible] illas [illegible] versus cerebrum [illegible].

Sed ex communi Anatomicorum sententia

Substantia nervorum [illegible] esse trip[illegible] [illegible] media [illegible] [illegible] [illegible] [illegible] [illegible] a medulla [illegible] magis & [illegible] [illegible] [illegible] plex [illegible] externa [illegible] a dura matre & [illegible] [illegible] a pia matre. Quæ membranæ [illegible] [illegible] [illegible] quod dura & pia mater cerebri. Cæterum [illegible] [illegible] ratione magis quam sensu investigatur [illegible] in omnibus animalibus, in quibus [illegible] [illegible] [illegible] separav[illegible]. [illegible] [illegible] [illegible] [illegible] & nerv[illegible] ad [illegible] focant [illegible].

Cartesius in nervis [illegible] valvulas [illegible] spiritum [illegible] [illegible] [illegible] [illegible] plus [illegible] [illegible] [illegible] [illegible] posse: A[illegible] [illegible] ab [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. Sed [illegible] [illegible] [illegible] [illegible] spiritus [illegible] ad valvul[illegible] [illegible] [illegible] [illegible] [illegible]. Nemo enim A[illegible] [illegible] [illegible] valvulas [illegible] [illegible] [illegible]vavit. Nec spiritus [illegible] [illegible] valvulis impedi[illegible]. Neque denique [illegible] forent A[illegible] [illegible] aut Paralyses, [illegible] in partibus a valvu[illegible] [illegible] *Cartesius* [illegible] [illegible]

[illegible] omnibus corporis nostri [illegible] per quæ [illegible] consuevit, quam regredi [illegible] possent [illegible] ita cogitavit Natura [illegible] spirituales.

[illegible] *Circulationem* quoque spirituum an malorum in nervis introducit *H. Regius*, quem defendit *Rogersf.* Postquam [illegible] ex cerebro per totum corpus sunt distributi [illegible] credit [illegible] per insensibilem transpirationem [illegible] venas [illegible] cum sanguine, & cum [illegible] cor, & [illegible] cerebrum nervosque. [illegible] exemplo [illegible] probat, [illegible] spiritus, per [illegible] per ventrem videntur [illegible] & a capite per [illegible] ad caudam, inde [illegible].

[illegible] ab hac ingeniosa commentatione, quia

1. *Walaus* indagaturus animalium spirituum motum, nihil aliud [illegible] quam motum [illegible] Nervos enim ligatos a ligatura [illegible] & [illegible] non alium motum [illegible] quos in se contrahantur. Quamvis [illegible] spiritus, ut [illegible] *Rogersfius*, tamen [illegible] posse, Apoplexia docet.

2. Spiritus ad venas recurrere opus non est, quia subtiles [illegible] & ex ipsiusmet confessione, insensibiliter exhalant.

3. [illegible] semper à cerebro suppeditatur, qui absumpti defectum suppleat.

4. [illegible] spiritum sanguini proprium [illegible] nec motu [illegible] moveatur [illegible] posse [illegible] animalibus è cerebro spiritibus, non [illegible] ad sensum non motum animalem.

5. [illegible] non moventur per systolen aut diastolen, [illegible] dictum [illegible] &c [illegible] atque ad [illegible] denique ad talem [illegible].

6. [illegible] spiritus [illegible] est sanguinis vice, quo alio [illegible].

7. [illegible] qui integros sensus omnes & motum singularem [illegible] ad extremam vitæ [illegible] servarunt, quibus tamen [illegible] per [illegible]. Ubi spiritum ad venas non erat regressus, [illegible] ex cerebro ad partes aliquas, donec superessent, commeantium.

Circulatio quædam inventis lymphae eis vasis concipi potest, ex [illegible] animalibus convenit [illegible] lymphæ- *ductum*, aqua [illegible] veri [illegible] atque ad [illegible] inducitur, indeque per cor ad cerebrum [illegible] atque [illegible] currat. De spiritibus ipsis eodem modo à [illegible] venas assumptis, [illegible] per cor ad cerebrum [illegible] nem [illegible] *Bellinceus* [illegible] *Mossenmarius* [illegible] tionis speciem [illegible] ex sero effuso a lymphæ [illegible] tum & [illegible] filtris fibrosis nervo [illegible] has, a [illegible] per lymphatica [illegible] vas & partes spermaticas & [illegible] glandulas [illegible] [illegible] venas & cor [illegible] per lymphatica [illegible]

Nervi duri vel molles.

Secundum [illegible] producti sunt [illegible] nervos [illegible] *Galeno* [illegible] nervi *molles* [illegible] *duri*. Illos [illegible] nos vocat nos *motorios*. [illegible] vero *duriores* [illegible]

1. *Ob productionem*, [illegible] longius progred[illegible] aut per durum corpus, aut ob [illegible] quo ducti. Et quo [illegible] à cerebro abeunt, eo duriores sunt. Hinc breviores [illegible] [illegible] gustus, auditus, molliores sunt, & odoratus mollissimi.

2. *Ob usum*. Duri enim ad motum aptiores [illegible] tur, molles ad sensum. Unde sensus organa, nervos [illegible] accepere [illegible] possint, & sensi[illegible] [illegible] tente pati. Omnes vero partes mot[illegible] [illegible] bentes [illegible] accepere nervos, quia durum ad agendum est magis ap[illegible] molle ad patiendum.

Cur nervi motorii duriores?

Q[illegible] vero molliores ad sensum sint aptiores, [illegible] [illegible] ad motum [illegible] tamen non [illegible] sine nervo [illegible] [illegible] absque sensus juxta proportione, *Regerio* [illegible] vertente. Mollior atque nervus est in centro, [illegible] [illegible] ut recte notat *Blasius*, qui [illegible] quoque ibidem esse valde fibrosam, & quasi ex quatuor columnis fibrosis.

Distinctio alia *Willisii* est, eaque peropportuna, quod alii nervi ex cerebro *actus spontaneos* exsequantur, alii [illegible] [illegible] *involuntarios* [illegible] par vagum.

Usus [illegible] Nervorum omnium est,

1. [illegible] *Spiritum animalem* ad omnes partes pro sen- [illegible] & motu [illegible] ex [illegible] con[illegible] [illegible] [illegible] vel [illegible] [illegible] [illegible] vel ex par[illegible] [illegible] vel motus privatio. Si dissecentur, motus [illegible] partis [illegible] [illegible] quem lasserebantur.

2. *Animalia* [illegible] ad partes diffundere. Nam [illegible]

[illegible] subito non tollerentur, sive in ligatura, sive ob-[illegible] nervorum, [illegible] partibus haerent ad [illegible] motum vel sensum efficerent. [illegible] cerebri *directio*, qua sublata, statim ab [illegible] partes quemadmodum [illegible] manu in [illegible], & baculus [illegible]. Quod aliqui praeter [illegible], per *accidens* [illegible] explicare [illegible] a cerebro cum spi-[illegible], quo intercepto priventur [illegible] Sol, & [illegible] nobis [illegible]. Nam.

1. N[illegible] alia causa [illegible] tam subito adsunt, tamque subito retrahuntur.

2. [illegible] omnis motus causa est in universo, nihil-que ea velocius.

3. Post interceptionem [illegible], sed non [illegible], sicut [illegible] baculus cum im-petu [illegible] ad [illegible] per-git per motum à manu impressum.

Tamen hoc [illegible] *Kelhansius*, sed ne [illegible] dicere [illegible] canaliculos [illegible] per ca-[illegible] ex [illegible] cohaerentibus. Sed per ca-[illegible] potest [illegible] a cerebro [illegible], sicut [illegible] species externae in [illegible]. [illegible] per quos [illegible] quo tamen [illegible] nervi [illegible], quae [illegible].

3. Temperies corporis [illegible] & [illegible] nervi se-quitur quare [illegible] medicamento [illegible] se oporte-re quae [illegible] monet *Jo. Damascenus* in Aphor. ad [illegible].

4. A[illegible] nervi cum glandulis [illegible] habent [illegible] vel adferant, vel [illegible] auferant. Pro nutritione partium spermaticarum succum [illegible] [illegible]. Sed non opus [illegible] in vasa sangui-[illegible] partibus [illegible] spermaticis. [illegible] &c. Et tan-[illegible] heterogeneas [illegible] partibus [illegible] consulit. Glandulas carere sensu & motu, verum [illegible] est. Movent [illegible], quando [illegible] ex [illegible] lympha, quod [illegible]. Sentiunt [illegible] [illegible].

Succi nervei commentum.

Succi hujus *nervei* [illegible] varios auctores habet, *Th. Carlesium*, *Backium*, *Mar*[illegible], & olim *Ferneum*, denique

Aug[illegible]

Anglorum plerosque, *Glissonium, Whartonium, Charleton* [illegible] Q [illegible] tamen [illegible] [illegible] per nervos à cerebro [illegible] [illegible] spermaticarum nutritione, & [illegible] per lymphaticas. [illegible] [illegible] vehiculum spirituum. [illegible] [illegible] *Deusingius, Mentz*, aut quæ [illegible] [illegible] eadem præstare posse [illegible]

Credimus arterias eadem præstare posse [illegible] [illegible] & superfl[illegible] lympham [illegible] phatica revehere, quod [illegible] hic [illegible] [illegible] contra nutritium succi [illegible] partes, etiam membranosæ, sanguineæ [illegible] quæ sanguine, vel iis quæ in sanguine [illegible] possunt. 2. Nervi cavitatem [illegible] succo crasso, qualis nutritius est [illegible] [illegible] 3. Succum [illegible] à cerebro non [illegible] [illegible] talem non conficit [illegible] 4. Non [illegible] ab [illegible] [illegible] monstrant [illegible] in quibusdam observetur, vel à sanguine [illegible] vel aliis causis [illegible] aut lymphaticis continuationis partes [illegible] per [illegible] sed [illegible] malis, vel à partibus [illegible] [illegible] Non [illegible] succus nervis [illegible] [illegible] 5. In hepate ex [illegible] [illegible] & [illegible] [illegible] Sæpe tamen [illegible] [illegible] & tumore & [illegible] & pal[illegible] partes [illegible] nervi obstruct[illegible] in nervos [illegible] [illegible] 8. Atroph[illegible] [illegible] Novi tabidos, incol[illegible] [illegible] ad sensum stupidos. 9. Partes [illegible] parcius copiosos [illegible] [illegible] [illegible]

[illegible] *Motum* [illegible] in nervis [illegible] [illegible] [illegible] [illegible] donec [illegible] [illegible] quia [illegible] [illegible] motus rectus [illegible] [illegible] à cerebro dirigitur, in systole [illegible]

[illegible] nervos, nec [illegible] remeat, si valvulæ [illegible] ad cerebrum in hy-[illegible] motum, non fac-[illegible] In [illegible] sanguinem ex arteriis reciperent. 3. [illegible] idem motus, quia etiam tum partes exilio-[illegible] motu adversi-[illegible] a cæ-[illegible] per nervos, ut redeat [illegible] 5. Electivi motus non major hic quam [illegible] ficas, nec is rectum excludit. 6. Nec irrita-tione [illegible] motus, sicut nec in vasis aliis. 7. [illegible] seu spiritus, seu succi observatur. [illegible] Ergo nullus con-[illegible] qui regredi non potest propter superius vincu-lum [illegible] elective trahi pellive propter inferius, nec alio [illegible].

[illegible] *Willisius* non per succum ner-[illegible] in nervis spiritibus, [illegible] pro-[illegible] de ictus aut [illegible] & nervo-[illegible] Habere enim se hunc succum [illegible] [illegible] & spiritu [illegible].

[illegible] sanguinis [illegible] vehi-[illegible] potest, quod [illegible] non [illegible] Ergo & [illegible] Hoc album semper [illegible] deberat [illegible] in infinitum [illegible] Spiritus tamen animales necessario [illegible] partes prom-[illegible] Hinc [illegible] sto-[illegible] Absque [illegible] impedimento to-[illegible] spiritus [illegible] cœlo sereno, quam per [illegible].

6. Formas quibus anima movetur cum imaginatur & judicat, non esse tantum in cerebro, sed & in omnibus ner-[illegible] ex [illegible] sed [illegible] & in to-tum

An in nervis imaginatio.

lum movendi officium determinatum. [illegible] nervorum etiam cerebro, [illegible] apud veteres. [illegible] inesse [illegible], nisi [illegible] Imaginatio & motrix facultas [illegible] [illegible] moveri [illegible] esse possit. [illegible] Bacon. [illegible] vocat, [illegible]

[illegible] ponat Des-Cartes [illegible] & motus [illegible] pendentiam in cerebro [illegible] ut origine, laeso nervi [illegible], vel intercepto [illegible] agant. Observatum *Amstelodamensibus* [illegible] spinalis medulla [illegible], immisso per [illegible] corpo-[illegible]. Aliud experimentum in cane apud eosdem [illegible] re vertebrarum aperto, [illegible] enim membrana [illegible] nullus motus in membris notabatur, [illegible] scalpello tangeretur, aut [illegible], motus [illegible] batur [illegible] Cerebri [illegible] esse affectus [illegible] aliae observationes produnt. Observatum [illegible] brachio [illegible] dolere [illegible] manum [illegible] dolis. [illegible] *Cartesii* est, nec [illegible] nec tristem [illegible] nem esse in pede, sed cerebro.

CAP. II.

DE DECEM PARTIBUS NERVORUM, intra Cranium à medulla oblongata ortis, eorumque progressu.

An olfactorii nervi sunt? Praeoccupatio.

PRIMUM PAR *olfactorium* [illegible] processus [illegible] *mammillares* dicuntur. Hi vero processus [illegible] [illegible] omnibus, [illegible] nervis [illegible] [illegible].

Nervi [illegible] ex medulla [illegible] prope ventriculos [illegible], & [illegible] nervorum [illegible], quamobrem pro nervis [illegible]

Nervorum [illegible] nomen ideo [illegible] non [illegible] extra calvariam non egrediantur, & cranium [illegible] que postea non [illegible] alioquin omnes [illegible] vi quaedam intra cranium [illegible], non essent nervi [illegible] quod absurdum.

Cum

Cavitatem manifestam invenit *Willisius*, utrinque ad [illegible] quæ eo tendit meatum, cui [illegible] phy- [illegible] cerebri ventriculis intumescit. Eusta- [illegible] pt. *fibras* & *filamenta* devehi in narium cavernas delata, membranæ intexuntur. *An cavi?*

[illegible] suæ crassiusculæ portiones [illegible] Mammillares, *papillares*. *Process. sus mammillares.*

[illegible] in hominibus re- [illegible] majores præcipue in canibus, & [illegible] & in avibus to- [illegible] Nam

[illegible] *processum* est, [illegible] olfactus vera orga- [illegible] tunica. [illegible] *Willisius* [illegible] glandulæ sunt & [illegible] quam a [illegible] tunicæ de- [illegible] quæ sensus per nervos ad cerebrum deferunt. [illegible] argumentis, quod [illegible] coryza [illegible] obstructis vel [illegible] odoratus, [illegible] tunica [illegible] Perpetuo [illegible] spiritibus. *Cavitatem* enim habent [illegible] & [illegible] impletam ad demulcendas odorum species *Willisius*. *Organū olfactus.*

Hi processus in anteriore cerebri parte *locantur*, post [illegible] dura [illegible] ap- pon[illegible] odores ascendunt.

Aliud par [illegible] nervorum ex quinto seu tertio pari adduxit *Schneiderus*, *Rolfincius*, *Willisius*, naribus im- plantatum, ob consensus gustus & olfactus.

Secundum Par, quod [illegible] primum, est *opticum* vel [illegible]*rium*, quia spiritus visivos ad oculos defert vel species ipsas ad cerebrum, non vero humores ad oculum ex cere- bro pro [illegible] quod commentum est *Cæsalpini*. *Hiero- philus* vocat *poros Opticos*, vel meatus, quia cavi putantur. *Malpighius* [illegible] Thynno & Xiphia ex [illegible] repli- cata *membrana* constare [illegible] connexa. Aute [illegible] *Eustachius* complicatos [illegible] velut tenuissimam [illegible] in æquales part [illegible] & tunicula illis ambiente, coactam [illegible] & in amplam membranam totum explicans.

H[illegible] hæc paria sunt maxima, crassissi- m[illegible] melliores.

[illegible] *continuum est spatio*, ex anteriore parte basis cerebri, nam ulterius occipat versus quartenum co- [illegible] ubi [illegible] inter cerebrum, & spinalis me- *Opticorum meatus.*

dulla

dullæ principium, atque ex medullæ oblon[illegible] Hoc rum priorum è cerebro nervorum principio [illegible] [illegible] Riolanus [illegible] ac revolutos [illegible] magnas [illegible] quas *Galenus* Thalamos nervorum Opticorum [illegible] [illegible] *corpora striata* [illegible] [illegible] *Plempius* [illegible] & [illegible] species immediate cerebrum ferire.

Vasa opticorum, & ejus vera causa. [illegible] vero progressi [illegible] fere via *majorum* [illegible] [illegible] non per [illegible] [illegible] vel interfectionem [illegible] [illegible] longior [illegible] contusionem [illegible] mollitiem patiantur. *Vesalius*, *Aquapendens*, *Valverda* [illegible] quando observarunt, [illegible] ductu divisos [illegible] in quadam conjunctos observavit [illegible] dexter oculus ab ineunte ætate [illegible] dexter tenuior erat [illegible] conjunctionem [illegible] [illegible] contusa [illegible] interior substantia [illegible] [illegible]

Coitus nervorum [illegible] ideo à natura [illegible] sive [illegible] utroque [illegible] oculo [illegible] spiritus visivus altero oculo [illegible] [illegible] conferatur, quæ *Galeni* [illegible] [illegible] & [illegible] ne in cerebri [illegible] [illegible] [illegible] opticorumque [illegible] & humectationem [illegible] *Plempio* placet, a [illegible] [illegible] & excrementis [illegible] [illegible] redditi, à [illegible] suo depellantur.

Statim deinde separati exeunt extra calvariam in oculorum centrum [illegible] brutis longe interius, cum ad latera magis prospiciant.

[illegible] tenuior [illegible] [illegible] quæ [illegible] [illegible] Hanc exp[illegible] [illegible] tunicam, alteram ad Choroidem, [illegible] substantiam medullarem ad retinam.

Notandum ex *Plempio* 1. Nervum [illegible] extra cra[illegible] [illegible] [illegible] esse [illegible] *fibrarum* [illegible] [illegible] & [illegible] productarum. [illegible] spiritus animales [illegible] moveantur. 2. *Fibras* [illegible] [illegible] & [illegible] [illegible] 3. *Vasa* [illegible] [illegible]

[illegible] Hinc a potu & cibo [illegible] victu somnolentiam oris & circa oculos gravedinem.

Tertium [illegible] quod secundum est *motorium* oculorum [illegible].

[illegible] Anatomicorum propter [illegible] originis [illegible]. Sed accedit mediam capitis sedem, [illegible] a [illegible], arcte cuilibet occurrit eos, &

[illegible] oblonga- [illegible] augmentum [illegible], ut [illegible] continuantur, quae causa est, quod [illegible] moto alter etiam moveatur.

Hoc par [illegible] *motus* & *ductus* [illegible] sed [illegible] per alia foramina [illegible], ad musculos oculorum & [illegible] ad ipsi [illegible] tempore [illegible], unde aliquando hoc laeso, [illegible] & e contra.

Motorium nervus
Cur uno oculo moto moventur & alter?
Cur aliquando [illegible] laedatur oculus?

Motibus quibus tam spontaneis & patheticis fere tantum [illegible] *Vesalio*, & [illegible] quatuor [illegible] totidem [illegible] attollentem, adducentem & deprimentem [illegible], quartus singularis [illegible] longus [illegible], & in medio [illegible], oculum ad angulum [illegible] deorsum vel [illegible] oblique circumducentis, impartiuntur.

Quartum, *Quintum* & *sextum* paria confunduntur valde [illegible] Anatomicis. Nam alii quartum & quintum par unum faciunt, & Tertium par vocant ex duabus radicibus [illegible], quartum [illegible] tertium par faciunt. [illegible] ipsi, qui [illegible] & sextum pro unico, videlicet pro quarto [illegible] dicto pari habent. Qui vero pro unico [illegible] tertium par [illegible], [illegible] tertii paris [illegible] sextum par pro quarto habent. Nos haec omnia paria [illegible].

[illegible] QUARTUM PAR, [illegible] Tertium [illegible] *Fallopio* [illegible] par [illegible] vero [illegible] paris [illegible] nam cum sequenti pari [illegible] habet [illegible] in principio, atque in progressu cum eo [illegible], & [illegible] ordine [illegible] parium [illegible] quidem

Ex [illegible] obiter [illegible] & [illegible] cerebri [illegible] *motor* [illegible] inde ad [illegible], & secundo pari [illegible], cum eo per commune foramen exit, oculi orbitam subit, atque de se [illegible] dat.

In oculi [illegible] musculum quintum, atque per [illegible] foramen [illegible] frontis [illegible] & [illegible] superiorem. Atque [illegible] *primus* ejus *ramus* prospicit.

FIGURÆ EXPLICATIO.

Origo nervorum, cerebro inverso conspicienda, repræsentatur ex *Veslingio*.

A A. *Nervi olfactorij. Auctori primum par.*
b b. *Eorum processus papillares.*
C C. *Nervi optici prope orbitam abscissi. seu secundum par.*
D. *Glandula pituitaria.*
E. *Infundibulum.*
f f. *Glandulæ duæ candidæ, cerebri menti præpositæ.*
G G. *Arteriæ carotidis ramus major.*
H H. *Arteria cervicalis.*
I I I. *Principium spinalis medullæ intra cranium.*
K k k. *Ramuli arteriarum minuti, qui alijs Rete mirabile designant.*
L L. *Nervi tertij paris. secundum Auctorem.*
M M. *Nervorum quinti paris initia.*
N N. *Nervorum sexti paris initia.*
O O. *Nervi auditorij. seu octavum par.*
P P. *Noni paris initia.*
Q Q. *Paris decimi ortus.*
R R R R. *Cerebri corpus ipsum inversum.*
S S. *Cerebellum.*

Secundus vero musculis superioris labri, & nonnullis nasi, & ipsi labro & gingivis.

Tertius per narium cavitatem, harum tunicæ.

Quartus musculis temporalis parti internæ. Quos omnes ramos subsequentibus duobus conjugationibus tribuit *Fallopius*, ad nostram distributionem proponunt *Vesalius*, *Columbus*, *Laurentius* & *Bauhinus*.

In summitate medullæ oblongatæ pone protuberantias orbiculares *nates* & *testes* dictas, radicem ponens *Vpsilo-* [illegible] *sius*, [illegible] *pathetica*s voca[illegible] in [illegible] ta passi [illegible] cerebellum, & vice versa, per nates & testes, co[illegible] [illegible] ales, oculos patheticè movere.

QUINTUM PAR, aliis tertia conjugatio [illegible] crassior [illegible] [illegible] facere [illegible] sensum seu gustum. Hoc

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Hoc [illegible] conjugationem *oritur* [illegible] [illegible] & [illegible] [illegible] propago [illegible] capite [illegible] & [illegible] Ficere [illegible] cum auditorio [illegible] duobus ramulis unitis.

[illegible] musculis [illegible] temporali, [illegible] beneficium, cum facie, gingivis & dentibus (nam horum benefi[illegible] dentes quem sensum habent, obtinent) musculo [illegible] [illegible] labro.

SEXTUM PAR [illegible] conjugationis [illegible] gracilem [illegible]

Originem [illegible] proxime [illegible] paul[illegible] [illegible].

An sextum phrenicum sit cum quarto. [illegible] commune foramen exit cum prio[illegible] [illegible] [illegible] cum [illegible] par [illegible] [illegible] & [illegible] [illegible] par [illegible] tertium, quartum & [illegible] [illegible] palatum. Alii, volunt hoc quoque par facere ad sensum gustus.

SEPTIMUM PAR, quod alius octavum, [illegible] al[illegible] quinti [illegible] minor portio, cum tamen [illegible] pa[illegible] gracilius & durius, item origine & progre[illegible] distinctum a quinto:

Nam *oritur* paulo ante quartum vulgo dictum, in medietate medullæ oblongatæ, & tertium par [illegible] atque [illegible] angulos intersecans, progreditur [illegible] [illegible] & quartum par ubi sursum & anterius latera [illegible] [illegible] [illegible].

E[illegible] per foramen cum tertio & quarto pari, & [illegible] [illegible] musculum oculi [illegible] ducentem [illegible] [illegible] [illegible] quod [illegible], tertius musculum temporalem [illegible] cum, [illegible] ore latitat.

OCTAVUM PAR, [illegible] *Vesl. fio septimum*, quod *oritur*, proxime ad latera priorum paulo inferius [illegible]. Os petrosum [illegible], & *dividitur* in [illegible] & [illegible] [illegible] tympanum facere [illegible] conjugationem [illegible] [illegible], ac si sextam conjugationem comitari velit.

Cur in aurium purgatione profunda tussiculæ. Propagines per primam & secundam vertebram mittit ad [illegible] [illegible] Unde [illegible] [illegible] ramos [illegible] [illegible] [illegible] brach[illegible] [illegible] [illegible], cum quarto, quinto & [illegible] [illegible] & [illegible] totum pedem, cum nervis [illegible] [illegible] [illegible] ad [illegible] [illegible] [illegible] [illegible]

NONUM PAR, *Vesalio* octavum [illegible] [illegible] [illegible]

involucrum [illegible] inserviens alii *sextum & vagum* quia pl[illegible] [illegible] partibus [illegible], et etiam omnibus [illegible] [illegible] [illegible] ex ultimo [illegible] ad [illegible] [illegible] [illegible] corpora [illegible] a spinali medulla [illegible] [illegible] [illegible] *membranis* for[illegible] atque partibus [illegible] connexæ [illegible].

Plexus glandiformes tres utrinque numerat *Galenus*. Pri[illegible] [illegible] supra laryngem, alterum [illegible] cervice, [illegible] [illegible] primum exeunt e thorace. Duos *Fallopius* [illegible] corpus olivare vocat, quia oblongum. *Vesslingius* [illegible] vagum [illegible] tantum, alterum in vicino intercostali [illegible] [illegible]. *Vesalius* comparat [illegible] ganglii [illegible] [illegible], *Vesslingius* [illegible] cannis vel radic[illegible] [illegible] bonum.

Usus [illegible] qualis *diverticulis* est [illegible] compita [illegible] [illegible] [illegible] cum [illegible] nervoso [illegible] occursantes, [illegible] [illegible], [illegible] [illegible] [illegible] com[illegible] credo, in longo nervorum tractu. Ita *Galenus* [illegible] longo tractu [illegible] [illegible] est nervum [illegible], [illegible] sub[illegible] [illegible] ejus corpore crassiori intercipit.

De plexus [illegible] generatione [illegible] *Vesslingius*, [illegible] [illegible] eodem loco surculi quidam [illegible], aliquo[illegible] [illegible] vel plures vel pauciores. [illegible] autem tantus a nervo [illegible] in [illegible] plexu proc[illegible] [illegible] sub eadem [illegible] eam ramum quasi sociam habendum, qui au[illegible] [illegible] [illegible] non inoculatur.

Oritur hoc par paulo infra præcedens, variis fibris [illegible] [illegible]. *Galeno* tribus.

Bolfinccio modo pluribus, modo paucioribus, [illegible] [illegible] ad [illegible] ut [illegible] [illegible] [illegible] fibra [illegible]. Originem [illegible] a [illegible] medullam ob[illegible] [illegible] [illegible] [illegible], quia loquela ho[illegible] propria.

Egreditur per foramen occipitis per quod ascenderat [illegible] major [illegible] interne & non procul ab [illegible] [illegible] in cervice [illegible] [illegible]. De[illegible] descend[illegible] [illegible], & [illegible] [illegible], [illegible] [illegible], & vena jugularis per [illegible] [illegible] [illegible] [illegible] transversum mittit propag[illegible], [illegible] hyoides [illegible] & ad [illegible].

Mox inter Carotidem & jugularem ad tracheæ latus [illegible] supra jugulum [illegible] divisum in ramum [illegible] & interiorem.

Exterior constituit NERVOS RECURRENTES, seu *vocales* [illegible], quibus læsis læditur animalis vox, ita ut altero præ-

Nervus recurrens.

 secto

FIGURÆ EXPLICATIO.

Nervi sexti paris, *Bartholino* [illegible], [illegible] V[illegible] Propagines inferiores designantur.

a a. *Nervus* [illegible]
b b. *In utroque latere ram*[illegible]
c c. *In utroque latere ramus* [illegible]
d d. *Ramus insignis ad linguam* [illegible]
e e. *Ramus utrinque* [illegible] *ad Laryngem* [illegible]
f f. *Ramulus alter qui ad Laryngem fertur* [illegible]
g g. *Ramuli* [illegible] *& ad musculos* [illegible] *propagati*
h h. [illegible] *nervi* [illegible]
i i. *Recurrens utrinque nervus.* [illegible]
k. [illegible] *qui ramulum* † [illegible] *tur, deinde descendens in* [illegible]
l. *Ramulus* [illegible] *& in pericardium* [illegible] *ac externum implantatur.*
m. *Ramulus ab eodem* [illegible] *dictum est,* [illegible] *& in pericar- dium diffusus*
n n. *Ramuli duo ab externo orti, quorum alter in* [illegible] *stantiam implantatur, alter vero ad vasorum* [illegible] *tendit*
o. *Ramus, de quo supra, qui in pericardium* [illegible]
p p p p. *Plexus nervi, qui* [illegible] *& finitur* [illegible] *gulam prope orificium superius Ventriculi.*
q q q q. *Ramuli in pulmones diffusi*
r r r r. *Ramuli per superiora praecipue Ventriculi propagati.*
s s s s. *Quamvis spectabiles propagines, quae in* [illegible] [illegible] *diffunduntur.*
t t. *Nervulus dexter & sinister renum.*
v. *Nervulus Lienis*
x. *Nervus hepatis*

[illegible library stamp]

[illegible] vocale reddatur animal, utroque [illegible] mutum. Ra-tionem [illegible] a sub [illegible] vocatur [illegible] hujus [illegible], spiritus [illegible] cavitatem ejus, quasi [illegible] in toto [illegible] cavum [illegible] per [illegible], sonum [illegible]. Dicuntur item *reversivi* sive *recurrentes*, [illegible] primo descendunt, deinde [illegible] circa axin [illegible]. *Dexter* circa [illegible] descen-[illegible], *sinister* circa truncum [illegible] descendens, & [illegible] ascendunt usque ad [illegible] laryngis, quibus ramos numerosos impertiunt. Quæ [illegible] quia [illegible] laryngis capita sua habent non superne, sed inferne.

Singularem hunc nervum esse dicit *Willisius* ab origine, quanquam sub eadem tunica continuatur. Sed ita pro [illegible] rum multitudine multiplicare nervos esset facile. Recte *[illegible]* pro uno habet propter involucrum [illegible].

Itaque *Exterior dexter* sexti paris, [illegible] scit musculis e sterno & clavicula [illegible] dein de costis [illegible] to recurrente dextro [illegible] & unitus, sub jugulo oblique descendit, & in [illegible] tunica pulmonis, pleura, pericardio & cordi ramos [illegible] [illegible] & deinde [illegible] dextrum efficit sub [illegible] go [illegible] atque per [illegible] in orificium Ventriculi [illegible].

Exterior sinister [illegible] modo partibus, ut prior, prospi-ciens, atque recurrenti sinistro coalitus toto stomachicum [illegible] sinistrum generat [illegible] ventriculi cum compare amplexatur [illegible] reliquum vero majorem accedit & jecoris cavam.

Interior dexter primo ad radices costarum quolibet nervo intercostali ramulum de se largitur, deinde cum arteria magna septum pertransit, & infimo ventri toti prospiciens, dein ad os usque sacrum pergit. Ab [illegible] vero in tres ramos [illegible]

I. Ad Omentum contendit, a quo alii tres rami [illegible] Colon, Hinc post [illegible] Colicam [illegible]. 2. [illegible] & [illegible] ad [illegible]. 3. Ad [illegible] partem dextram superiorem omenti membra-nam, [illegible], & [illegible].

II. Inferior ad renem dextrum. Hinc solent dare causam vomitus in Nephriticis.

III. Maximus ad mesenterium, intestina, & vesicæ dextrum latus.

Interior sinister in suo latere eodem modo distribuitur, nisi quod [illegible] ad lienem pars abeat. Sed ab utroque in-feriore

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] nephriticis vomitus?

[illegible] propagines mittuntur ad uterum, & ejus [illegible]

Haec est distributio sexti vulgo dicti paris, nobis noni.

De *intercostali* autem sentit *VVillisius* per surculos cum pari vago quidem inter se communicare, sed quoad articulos *principia, truncos & divaricationes* plane distingui, potiusque originem debere nervis quinti & sexti paris indigitatum, quippe videri par *vagum*, quod ad ipsa vitae palatia & praecipuam victus officinam ducit, ad viscera intestina [illegible] & corporis cloacam ferri. Nos tamen a recepta sententia non discedimus ne pro tyronibus ordo confundatur.

Eodem docente *intercostalis truncus* in descensu, juxta costarum radices, in singulis earum intercapedinibus & usque ad os sacrum, a vertebrarum internodiis *ramum vertebralem* admittit, ad fulcimenta commercia actionum voluntariarum & spontanearum inter cerebrum & cor. Hinc in Apoplexia obstructa origine prope cerebellum, per vertebralem ramum subsidia cordi mittentur, cerebri quoque conceptus statim afficiunt cor, & versa vice; ad expurgandum serum superfluum ex spinali medulla per ramum mesentericum.

DECIMUM & ULTIMUM PAR nervorum, intra cranium in postremo occipite ex medulla oblongata jamjam in spinam capitura ortum, a Veteribus septimum est, *VVillisio* nonum.

Hoc reliquis *durius* est, utrinque prodit radicibus postea unitis, & per proprium atque obliquum foramen cranij egreditur. Statim vero fortibus membranis jungitur, non communicetur, cum praecedente pari, munimenti ergo. Deinde vero surculum se augetur, & in linguam abit maxima sui parte, minima vero in hyoidis & laryngis musculos.

CAP. III.

DE NERVIS EX SPINALI MEDULLA prodeuntibus, & primo de nervis ex Cervice, adeoque totius manus Nervis.

HActenus decem paria nervorum intra Calvariam ex medulla oblongata prodeuntia, sequuntur reliqua PARIA, aeque TRIGINTA, nonnunquam viginti novem ab eodem principio, videlicet medulla longa emanantia, sed prout illa jam extra cranium, in *Spina* contenta, sub *spinalis* vel *dorsalis* dicitur. Prodeunt autem nervi hi ex foraminibus

bus sp[illegible]arum cont[illegible]ato tractu sese [illegible] ad manus.

Medullæ spinalis Anatome — M[illegible] dorsalis, seu spinalis Anatomen [illegible] tius [illegible] *Spiegelius*. Per ejus longitudinem [illegible] vas *sanguineum* protenditur, ex quo [illegible] hic inde emittuntur, sicut in cerebro. A latera[illegible] alii ramos, sed minor, accurrit eodem modo. An [illegible] dullam pertingant, non vidi. Puncticulæ [illegible] [illegible] interiore comparent, à venis capi[illegible]

Divisio. — *Dividitur* medulla in duas partes, sicut cerebrum [illegible] per longum, [illegible] hæc per [illegible] pia mater, lobo [illegible] [illegible] separabilem, [illegible] vas [illegible] nomen [illegible] vas [illegible] vas [illegible]. Ad medii [illegible] paulatim [illegible] & membrana tenui & medullæ [illegible] obliteratur. Non [illegible] seu [illegible] *fissuram* [illegible] *Blasius*, anteriorem eamque minorem, & posteriorem ma- jorem [illegible] spectare [illegible] vertebrarum spinam, quod tamen [illegible] vidit. In [illegible] semel observavit *Pinnius* [illegible] à me Observationibus, ita cerebro [illegible] est medulla, quod *Galeno* quoque notatum [illegible] & in [illegible] aliæ, quas ita accurate distinguere non possumus propter [illegible] cavitatem, cum [illegible] nervos, ut cerebrum [illegible] tunica [illegible] exterior, & pia interior, qua constri- guntur & rotunda fiunt, quibus tertiam [illegible] *VValæus*, & *Blasius* [illegible]. *Cavitatem* manifestam non habet [illegible] fistula medulla spiritus vehementis non permittit [illegible] dullæ substantiam, nisi per sinum seu cavitatem. Post me dixit doctus *VVillisius* in hac medulla spinali, ut in cere- bro, arterias, sinus, & venas quoque observavit, & accurate descripsit, uti & *Blasius*, qui legendi.

EX MEDULLA, dum IN CERVICE est, oriuntur nervo- rum *paria*, aliis *septem*, aliis *octo*, in totum caput externum & musculos vicinos disseminata.

Primum & Secundum par præ reliquis omnibus hoc pe- culiare habent, ut non à latere, sed partibus antica & po- stica *prodeant*, ob peculiarem articulationem primæ & se- cundæ vertebræ.

Primum vero par *oritur* inter occiput & primam verte- bram, quod dari negabat Patav[illegible] *Io. Leonicenus* in exenteran- dis nervis dexterrimus, quum nec viderit, nec ex prima vertebra exire possit foramine carente, & arcte secundæ vertebræ occipitique cohærente.

Secundum par inter primam & secundam vertebram, & sic deinceps.

Primum

[illegible] & [illegible]dum par *disseminantur* in capitis musculos & ad aures.

[illegible] & *quartum* in [illegible] genarum, item qui caput & [illegible].

Quintum [illegible] propaginibus faciunt ner-[illegible] cum prædictis [illegible] par [illegible] vero [illegible] in musculos [illegible] scapularum, & [illegible].

Sextum in brachia & scapulæ cavum.

Septimum cum [illegible] colli & pro-[illegible] brachium [illegible] extremum.

[illegible] BRACHII a *quatuor* vel *sex* paribus [illegible] ex *quinto, sexto* & *septimo cervicis* paribus, item *primo* & *secundo* paribus *thoracis*. Quæ ubi primum [illegible] conjunguntur [illegible] & [illegible] dam-[illegible] separatim, mox vero in dicta jam paria dividuntur separatim, [illegible] congressu, an malum [illegible] fieret [illegible]. Hinc [illegible] in Paralysi brachii vel convulsione applicanda supremo brachio affecto, a dorsi supremo & colli latere, unde nervi prodeunt, non directe [illegible] colli seu dorsi, ubi ob commune nervorum principium.

PRIMUM PAR ex quinto pari Cervicis in Deltoidem potissimum & brachii cutim abit, partem relinquens quæ venam humeralem comitatur. *Nervi manus totius.*

SECUNDUM crassius per medium cubiti & anticam partem fertur ubi biceps prospicit, unde cum tertio nervo jungitur, postea deorsum vergens, supinatorem longiorem ramulo [illegible]. Ad flexuram vero cubiti dividitur modo in duos, modo in tres ramos.

1 Superior [illegible], per brachii sedem externam pergit, ad [illegible] inter [illegible] primi vel secundi regionem externam.

2 Medius & crassior intra cubitum descendit oblique ad carpum.

3 Inferior, Basilicæ ramo [illegible] attensus, in cutim cubiti & manus absumitur.

TERTIUM cum priori jungitur, sub bicipite prospicit brachio & manus internæ sedi.

QUARTUM crassissimum, cum vena profunda & arteria propagatur postea [illegible]. Prospicit autem musculis carpum extendentibus, carpo, pollici, indici & medio.

multu

FIGURÆ EXPLICATIO.

Spinalem medullam, ab eaque ad artus derivatos nervos demonstrat.

A. *Spinalis medulla initium prope calvariam.*
bbbb. *Propagines ferratim à medulla propagata.*
ccc. *Ipsum medullæ corpus, vertebris à dimidio incisum, supra quod vascula arteriolaque decurrunt.*
DDdd. *Rami à tribus cervicis & duorum thoracis nervorum paribus orti ad manum distribuenda.*
E. *Plexus & commixtio illorum nervorum.*
ff. *Primum par nervorum manus.*
gg. *Secundum par.*
hh. *Tertium par.*
ii. *Par quartum cæteris grandius.*
kk. *Quintum par.*
ll. *Sextum par, quod est subcutaneum.*
M. *Primus cruris nervus.*
N. *Secundus nervus.*
ooo. *Secundi nervi ramus qui saphenam comitatur.*
PP. *Tertius cruris nervus.*
QQQ. *Quartus cruris nervus, omnium crassissimus.*
rr. *Ramus externus.*
ss. *Ramus ejus internus.*

musculisque digitos extendentibus.

QUINTUM prius ascensum inter cubiti musculos quibus providet, descendens per cubiti interiora & posteriora (ubi non nunquam impingentes vel nervum comprimentes, stuporem in digitis persentimus) in cubito [illegible] bipartitur.

Unus ramus externe per ulnam pergit ad medium, [illegible] latere, & minimum. Secundum [illegible] ora digitorum latera securitatis ergo, ut in apprehensione cedant, eo enim loco vulnera periculosiora quam medio.

Alter interne per ulnam pergit, inter musculos digitos flectentes usque ad carpum, & iisdem partibus propagines mittit, quibus prior.

SEXTUM in cubito cutim evacuatur, inter cutem & membranam progrediens.

CAP.

Cap. IV.

DE NERVIS THORACIS, DORSI, ET LUMBORUM.

Ex Medulla in Dorso oriuntur *paria duodecim*, vel quidam undecim: quae omnia & singula ab egressu *dividuntur* in ramos majorem & minorem: quorum alter ad anteriora fertur, alter retrorsum, ad posteriora recta vadens.

Rami *anteriores* mittuntur ad singula spatia intercostalia pro musculis intercostalibus, internis & externis, quos singulos in duos ramos aliquando videas divisos, pro musculis, [illegible], item pro obliquo descendente abdominis.

Posteriores rami & minores retrorsum abeunt ad vertebrarum spinas, inter musculos vertebris adnatos, in quos partim absumuntur, partim in eos qui ab apicibus his spinarum oriuntur ut in Rhomboidem, cucullarem &c.

Ex spinali Medulla, quando in Lumborum Vertebris est, *oriuntur* paria nervorum, aliquando *quinque*, aliquando quatuor, quae paria *majora* sunt dorsalibus. Et eorum quodlibet dividitur in ramos anteriores & posteriores, qui partim in musculos lumborum & hypogastrii, partim in crura disseminantur. Nam

I. Par dat surculum ad diaphragmatis carnosas partes, deinde prospicit musculis abdominis & lumborum.

II. Ramos communicat nonnullis femoris & tibiae musculis, atque ex plurimorum sententia, surculum ad vasa spermatica.

III. Ad genu abit, ejusque cutem, parsque Saphaenam comitatur, pars vero abit ad musculos lumbis incumbentes.

IV. Inter lumbaria maximum est, ad anteriores musculos femoris & tibiae, usque ad genu procedens.

V. Foramen transit, quod est inter os Coxendicis, pubis & ilii, ramosque impertit nonnullis musculis femoris, penis, collo uteri & vesicae.

Maximi vero rami ab ultimis tribus his partibus ad *crura* abeunt, ut *sequenti capite* dicemus.

FIGURARUM EXPLICATIO.

Spinalem medullam ex Vertebris Canis exemptam exhibet ex *Ger. Blasio.*

FIG. I. In tres partes divisa.

A A. *Cerebellum.*

B *Quartus Cerebri Ventriculus.*

C cc, &c. *Dura mater secundum longitudinem spinalis medullæ, à capite ad caudam dissecta & utrinq; reclinata atque expansa*

D. *Pars medullæ spinalis cervicalis.*

E. *Pars dorsalis.*

F. *Pars lumbaris.*

G. *Pars inclusa ossi sacro & coxigi.*

H. *Nervus accessorius* Willisii.

α, &c. *Transitus nervorum per duram meningem, in aliquibus tantum repræsentatur, cum quorundam omnium eadem ratio.*

ββ. &c. *Conjunctio duræ meningis cum* [illegible] *per membranacea filamenta, nervosa.*

γγ. *Nodi extra duram meningem ex concursu plurium filamentorum nervorum exorti, quibus similes etiam variis aliis in locis se exhibere solent.*

δδ. &c. *Nervi duplici initio gaudentes.*

Notandum.

1. *Nervos hic à spinali medullâ procedentes duplici linea denotari, sic ut album inter duas lineas nigricantes interjectum nervum designet.*
2. *Proponi hic spinalem medullam prout à parte postica, qua vertebrarum spinâ respicit, spectatur.*
3. *Constitutionem partium ubique observatam esse, sic ut spinalis medullæ magnitudinem quoad longitudinem & latitudinem, nervorumque numerum, exortum, crassitiem, ab invicem distantiam ita exprimere studuerimus, prout in corpore cujus erant sese exhibebant.*

FIG. II.

a a. *Nervi à parte spinalis medullæ posteriore procedentes.*

b b. *Nervi à parte ejus anteriore.*

c c c. *Dura mater à parte posteriore qua vertebrarum spinam respicit per longum dissecta, & ad latera utrinque reclinata.*

d. *Conjunctio nervorum diversorum extra meningem duram.*

e. *Fissura postica, major.*

f. *Fissura antica, minor.*

g. *Substantia interna rubicundior.*

FIG. III.

In per medium dissectâ spinali medullâ eadem accuratius exhibentur. Ubi

aa, bb, ddd. *Idem quod in fig. 2. ut*

c c *Duræ matris particula est, ut nervorum per eam transitus & extra eam conjunctio melius conspiciantur.*

FIG. IV. V.

In medulla spinali per transversum dissecta fissuram utramque exhibet, utriusque lateris medulla [illegible] adhuc [illegible] cum [illegible]

a. *Linea hæc fissuram designat anticam.*

b. *Eandem posticam.*

o o. *In hac medietate cavitatem quasi figuram*

o o. *Extra hanc albicans tota* [illegible] *substantia alba.*

FIG. VI. VII.

[illegible] hic magis detegitur ubi utriusque lateris medulla dextre separatur.

a. *Fissura minor antica.*

b. *Major, postica.*

c. *Substantia media medullaris.*

o o *Cavitas.*

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CAP. V.

DE NERVIS EX OSSIS SACRI Medulla prodeuntibus, & de nervis totius pedis.

EX MEDULLA spinali in OSSE SACRO existente *oriuntur quinque*, aut *sex* nervorum paria: quorum quatuor superioribus & tribus lumbaribus inferioribus, oritur NERVUS CRURALIS, inter [illegible] descendentes, qui in exortu [illegible] quatuor ramos spargunt, [illegible] de nervis pedis.

Nervorum vero ossis sacri *par primum dividitur* instar lumbarium in ramum anteriorem & posteriorem. At [illegible] parte abit. Nam antequam exeunt, [illegible] gemina [illegible], & utrinque nervus unus in anteriora & unus in posteriora exeunt. Posteriores rami distribuuntur [illegible] lumbares posteriores, in partes videlicet postea vicinas.

Anteriores [illegible] ad Crus abeunt, duo inferiores [illegible] & vesicae [illegible] ad [illegible], [illegible]. Atque ad intercœminaeum & [illegible].

[illegible] *unicum* de se fundit propagine [illegible] *Nervus sine pari.*
[illegible] aliquot femoris musculos.

[illegible] NERVI IN CRUS euntes, qui supra diximus *quatuor* esse.

Primus & *Tertius* breviores sunt, & ad femur tantum [illegible]. *Secundus* longior, & ad tibiam quoque [illegible]. *Quartus* longissimus.

PRIMUS ex tertio & quarto lumbarium paribus constatus [illegible] abit in femoris cutem & [illegible], & supra [illegible] *finitur*.

SECUNDUS ex eodem loco *natus*, cum vena & arteria ad [illegible], per inguina [illegible] femoris musculos [illegible], & [illegible] spargitur. Ramum vero longiorem [illegible] ad musculorum [illegible].

TERTIUS *oritur* [illegible] articulatione quartæ & quintæ vertebrarum [illegible] ad [illegible] quod superius femoris [illegible] musculos, atque ad femoris cutem in inguine.

QUARTUS

Quartus omnium est crassissimus, longissimus, durissimus, fortissimus in toto corpore, ex ossis sacri quatuor partibus conflatus, qui prospicit coxi femoris, ejusdem aliquos musculos, tum & tibiæ atque pedis. hunc duplicem ortu, duplici & progressu aliquando notavi, *Externum* unum, alterum *Internum*.

Truncus vero ille magnus sub sinu posteriore genu sive poplite, *dividitur* in ramum externum & internum.

Externus ad poplitem, pedis exteriora, musculos peronæos, & externum malleolum vergit.

Internus & major secundum tibiam ad musculos pedum & digitorum, malleolum internum, pollicem & plantam & digitis singulis duos largitur surculos.

Quocirca fere omnes nervi qui in totam tibiam, & totum pedem minorem abeunt, ab hoc solo crassissimo maximo nervo nascuntur.

ANA

ANATOMIÆ BARTHOLINIANÆ

LIBELLUS IV. ET ULTIMUS,

DE OSSIBUS.

Ubi simul DE CARTILAGINIBUS, ET LIGAMENTIS.

OSTEOLOGIAM tandem ultimo loco, compendiose, uti hactenus alia, explanabimus; *Ratio ordinis.*

Ultimo vero loco, quia remotis & separatis omnibus aliis, OSSA plenius in conspectum venire, & examinare possumus. *Riolanus* diligentissimus, duplici loco in Enchiridio de Ossibus instituit tractatum, semel prout recentibus musculis in cadavere comparent, alibi ut in sceleto sunt exsiccata. Sed supervacanea est hæc in compendio ostentatio. Alioquin enim de venis, arteriis, nervis, intestinis, ventriculo, utero [illegible] exemptis & exsiccatis, & ad pompam in Theatris suspendi solitis, nova instituenda esset Anatome. Nec [illegible] Osteologia [illegible], nisi ad memoriam sublevandam, nec sine [illegible] recte cognoscitur, [illegible] sine hac esse potest. Hinc [illegible] Anatomici cum partibus singulis subjecta ossa demonstrant in cadavere. Nos igitur de una tantum solliciti [illegible] *Cur ultimo de ossibus agatur?*

Conjungimus doctrinam de CARTILAGINIBUS & LIGAMENTIS. *Cur cum ossibus de cartilaginibus & ligamentis agatur?*

I. Ob substantiæ similitudinem. Proxime enim ad se invicem accedunt tres hæ partes similares, OS, CARTILAGO, LIGAMENTUM, ut ratione majoris & minoris tantum inter se differre videantur. Est enim os durissimum, cartilago paulo mollior, quæ in os tamen abire potest, ut in infantium tenellis ossibus videre est quæ [illegible] cartilaginea sunt. *Li-*

[illegible] cartilagine adhuc mollius est, quod & ipsum aliquando in os abit, ut in decrepitis. Hinc eandem [illegible] tribuunt [illegible] osli, cartilagini, ligamento [illegible] & [illegible].

2. Ob loci vicinitatem. Os enim, cartilago & ligamentum ut plurimum se invicem comitantur, simulque reperiuntur compacta. Nam ligamentis [illegible] ossa, quæ [illegible] ligantur, circa capita, cartilaginea crusta [illegible] obducuntur.

CAP. I.

DE OSSIBUS IN GENERE

OSSIUM natura de facili innotescet, si eorum *causas* & *accidentia* ordine proponamus.

Materia ex qua in utero generantur ossa, *Hippocrati* est excrementum terreum cum pinguedine & [illegible] quacta. *Aristoteli* item excrementum seminale. *Galeno* crassior & durior pars seminis exsiccata.

Quædam vero ossa perfecte generantur in utero, ut auditoria, quædam [illegible] imperfecte, ut dentes & [illegible] [illegible] quibus aliquid deest, vel processus vel appendix, &c.

Deinde [illegible] ossa præter dentes certam [illegible] metam habent: dentes vero semper excedant [illegible] [illegible] oppositus fit longior, quod [illegible] volunt, [illegible] in [illegible] ciborum semper [illegible].

Medulla an ossium sit alimentum, an excrementum?	*Materia nutriens remota* putatur sanguinis pars crassior, terrestrior, & veluti excrementitia, per venas [illegible] medullam, ut [illegible] cavernis ossium excoquatur, [illegible] ossibus [illegible] *Platerus*, repugnante tamen [illegible] [illegible], [illegible] conspicua quam illæ. Hinc [illegible] cavitatibus ossium [illegible] [illegible] naturam medulla [illegible] est.

Proximum ossium excrementorum statuitur *Hippocrati* & *Galeno* medulla in ossibus contenta quibus [illegible] *Aristoteles* atque Peripatetici, qui medullam excrementum [illegible] [illegible] ossium esse volunt) sicut [illegible] cartilaginibus [illegible] quod circumfunditur, proxima est nutriens materia & ligamentis, membranis & [illegible] [illegible] humor [illegible].

Ossium solidorum sanguis crassius per poros [illegible] quia 1. fracta ununtur callo ex reliquiis [illegible] sanguinis generato, 2. in sua substantia pati possunt abscessum [illegible]

perflatur bis alimenti in poris putrescentibus. *Hofmannus* [illegible] tri fungi ne in medulla contento approbat, medullam vero serve re sanguinis partem solidam velimus.

[illegible] o excrementito pugnat *Gassendus*, imprimis, quia in [illegible] aetate magis egent medulla, minor est in junioribus [illegible] grandiora ossa minus indigent, quia nutriuntur, non [illegible]. Nutrit autem hac medulla, inde etiam [illegible] per [illegible] in gelatinam [illegible] videtur substantiae, resolvantur. [illegible] vigorem suum acquirere, [illegible] foverent & [illegible] orbebant, plus etiam prae [illegible] continent [illegible] ossa humeri, cubiti, seu o-[illegible] & [illegible] in alveolis tantum humorem medullae [illegible] concludunt. Certe dum ea nutriuntur, majori etiam robori inserviunt.

Efficiens est vis ossifica, seu vis insita calore ad-[illegible] agens.

Forma ossis est anima, cum toto: deinde Ratio qua [illegible] 1. de gen. an. cap. 1. Unde ossa mortuorum non [illegible], nisi aequivoce. Accidentia ossium sunt figura [illegible], soliditas, robur, &c. de quibus postea.

Finis vel *usus*.

1. Esse fundamenta vel sustentacula totius corporis, sicut columnae vel fundamenta in aedibus.

2. Esse partibus nobilioribus loco munimenti, quemadmodum calvaria munit cerebrum.

3. Progressioni inservire, quod liquet in cruribus. Hinc serpentes, vermes, & alia reptilia, quae cruribus carent, serpere coguntur. *Reptilia cur serpant?*

Secundo [illegible] est movere se, corpus & musculos beneficio [illegible] pro suo loco egimus.

4. [illegible] varia ossium nomina, de quibus in speciali ossium historia.

5. Usus Medicus quidam. Pulvis cinerum curat, febres, fluxus [illegible]. Oleum [illegible], Magisterium [illegible] Epiphysi adversatur [illegible] & triangularia occipitis ossa, &c.

Situs ossium est profundior, quia fundamenta sunt, & stabilimenta corporis.

Magnitudine variant, pro varietate utilitatum. *Magna* sunt ossa tibiae, femoris, brachii, scapulae, &c. *Parva*, auditoria, sesamoidea, dentes, ossa carpi, &c. *Cur ossa plura in animali?*

Numero plura sunt, non unicum, ad motuum varietatem, & ne uno laeso statim totum laedatur.

 Monstro

Monstrosum autem est hominem absque [illegible] ossibus, cujusmodi puellulæ meminit *Hippocrates*, [illegible] dine quatuor digitorum [illegible] non diu vixerit, cui [illegible] *Forestus* quoque vidit.

Numerus vero omnium ossium non est idem in omnibus. Nam in pueris plura sunt; quæ paulatim coalescunt & in pauciora abeunt. Alii [illegible] epiphyses [illegible] [illegible] & ita numerum majorem constare. Alii [illegible] [illegible] sesamoidea, aliaque parva, aut quæ [illegible] [illegible] ut in anteris Chondidibus: & ita facit *Archangelus*, tantum 249. numerant: alij communiter [illegible] tot, quot [illegible] dies.

Figura variat. Alia enim sunt rotunda, plana, acuta, obtusa, &c. ut in specie dicetur.

Color in naturaliter constitutis est candidus, cum minimo rubore mistus.

Cinguntur extrinsecus, non intrinsecus, [illegible] orbita oculi interior, nec ossa palati, nec aurium cavitates nec interna calvariæ, periosteum habentes, periosteo omnia ossa exceptis dentibus & ossibus sesamoideis [illegible] [illegible] ligamentorum [illegible] quibus motio [illegible] [illegible] [illegible] ossa [illegible] quorum beneficio sentire [illegible] pertingat.

Periosteum sentit, non ossa. Laurentius.

Connexio ossium varia est. Dicitur autem mutua & [illegible] [illegible] omnium ossium [illegible] Græcis [illegible] quasi [illegible] [illegible] cadaver [illegible], ab ex [illegible] [illegible] [illegible] ligamentis cum ossibus ex [illegible] [illegible] [illegible] aliquo compactum, modo recta, [illegible] [illegible] [illegible] [illegible] vel [illegible] [illegible] vel ex [illegible] [illegible] [illegible] nomine [illegible] [illegible] [illegible] Anatomen [illegible] non spectat, [illegible] [illegible] Osteologia [illegible] [illegible] [illegible] ligamentis [illegible] ornata.

Connexio vel articulatio ossium quadruplex Galeno.

[illegible] connexio naturalis *Galeno* [illegible] vel *ἄρθρον*, vel articulum, seu articulationem, vel *σύμφυσις* [illegible] coalescentiam.

Ἄρθρον facit duplicem, *διάρθρωσιν* sive per articulationem, ut sunt *ἐνάρθρωσις*, *ἀρθρωδία*, & *γιγγλυμὸς* vel *συνάρθρωσιν*, ut vult esse suturam, harmoniam & gomphosin.

Σύμφυσιν porro statuit vel sine medio, vel per medium.

Sed nos ita dividimus ossium connexiones.

Ossa

[illegible] vel per *articulationem*, vel per *symphysin*.

Articulatio cum motu est, eaque vel *obscura*, (quam alij vocant neutram, seu dubiam) [illegible] ut est costarum cum vertebris, item ossium carpi & [illegible] vel *evidens* laxo & manifesto, diciturque

Diarthrosis, cujus tres species

I. *Enarthrosis*, [illegible] est, ubi [illegible] adest, tam cavitatis recipientis, quam capitis ossis quod recipitur, [illegible] femoris cum ischio.

II. *Arthrodia* est [illegible] ut est maxillae inferioris cum osse temporum.

III. *Ginglymus* [illegible] & excipitur, ut se invicem [illegible] pluribus [illegible]

1. Cum [illegible] quod vicissim excipit, ut fit in osse humeri cum cubito.

2. Cum excipit alium, & excipitur ab alio, ut fit in vertebris. Vertebra enim media [illegible] superiorem excipit & ab inferiore excipitur.

3. In modum rotae, ut est vertebrae secundae colli cum prima, ubi [illegible] vertebrae altera volvitur & circumrotatur.

Per *symphysin* seu *coalitum* [illegible] ossium voco, quae fit absque motu, & [illegible] ossa se invicem [illegible].

[illegible] coalitus vel absque medio, vel per medium.

Absque medio,

1. *Ῥαφή*, *sutura* in ossibus capitis.

2. *Ἁρμονία*, id est, compages [illegible], per lineam simplicem rectam, obliquam vel circularem ut in ossibus maxillae superioris & nasi. Ita epiphyses fere omnes annectuntur.

3. *Γόμφωσις*, hoc est conclavatio, quando os ossi infigitur instar clavi, ut in dentibus videre licet.

Has tres species *Galenus*, & alii eum secuti sub Synarthrosi [illegible] genere complexi sunt. Sed male quia motum non habent, forsan tamen ad Synarthrosin spectant [illegible] stabilimentum quod partibus praestant.

Per medium fit triplex etiam coalitus, intercedente tertio corpore

1. *Cartilagine*, & dicitur *synchondrosis*, ut in ossibus maxillae inferioris & ossibus pubis.

2. *Ligamento*, & dicitur *syneurosis*. Exemplum in osse coxendicis cum femore. Hujus loco *Spigelius* tres alias sub-

stitur, *Syndesmosis*, cum nexus fit per ligamentum, *Synchondrosis*, cum per cartilaginem, *Syssarcosis*, cum ope membranae [illegible] [illegible] cat [illegible] [illegible] [illegible] [illegible] [illegible] *Syneurosis* [illegible] [illegible] [illegible] gynacationem [illegible] [illegible] [illegible] *Senguerdius*, vel in haec tria membra posse dividi.

3. *Carne* vel musculo, & dicitur *syssarcosis* quae connexio, ut in os Hyoide cum scapula.

Substantia ossium dura est [illegible] [illegible] [illegible] [illegible] [illegible] tem, constat tamen [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] te: cui spiritum acidum & sal volatile [illegible] [illegible] propter quod [illegible] facile [illegible] [illegible] & [illegible] [illegible] [illegible] butantur. At [illegible] [illegible] [illegible] [illegible] frangere [illegible] ut in ossibus [illegible] [illegible] videmus, & [illegible] daveribus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] bantur, quod [illegible] observavit [illegible] [illegible] *Fontanus*. Quam *Galeno* teste [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] vantur, ex [illegible] [illegible] [illegible] [illegible] vetustas [illegible] xit, siccitatis autem hic effectus.

Durities haec quo minor, eo melius ossa fracta coalescere possunt, & unitionem recipere.

At in adultis non vere coalescunt aut regenerantur, sed inter vera [illegible] [illegible] [illegible] ceu glutinis [illegible] quod *callum* vocant *Graeci* [illegible] [illegible] [illegible] [illegible] do evenit praeter [illegible] [illegible] [illegible] [illegible] & mala [illegible] [illegible] [illegible] quam [illegible] [illegible] [illegible] [illegible] [illegible] tinantur [illegible] [illegible] [illegible] [illegible] [illegible] quando prima vertebra calvariae glutinatur [illegible] atque [illegible] nuere, & [illegible] nequeunt.

Durities [illegible] [illegible] est in nonnullis ossibus [illegible] femoris, &c. A[illegible] vero mo[illegible] sunt, ut os spongiosum [illegible] [illegible] [illegible] sa extrema, &c. Praeter naturam omnia ossa [illegible] [illegible] [illegible] deprehenderunt *Fernelius*, *Ruelius*, *Hollerius*, [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Veru [illegible] teste *M. Donato*. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] & *Baccius* decid[illegible], de qua *Codronchius*.

Partes ossium sunt solidae vel cavae. *Plinius* tamen auctor est, quos tam vivere solis ossibus solidis sine cavitate, quos *cornuos* voc[illegible] [illegible] [illegible] [illegible] esse nec [illegible] [illegible] [illegible] [illegible] [illegible] Quod de *Lysandro* Syracusano confirmat *Solinus*. Sed [illegible] fides semper incorrupta.

Cavitates aut *intus* [illegible] [illegible] medulla, quae tamen cavitates non absque consp[illegible], vel *extra* ad articu[illegible] [illegible] quae si *profundae* sunt, dicuntur [illegible] vel [illegible] [illegible] non

κοτυληδόνες) item acetabula. Cotyle enim antiquis fuit mensura liquidorum, vel hemina, aliis spuam genus. Si superficiales tantum sint, dicuntur γλῆναι & γληνοειδεῖς, forma oculorum sinuum, quæ clarius in pupillis apparent.

Partes ossium *solidæ* sunt tres.

PRIMA & præcipua os dicitur, estque pars durissima, & in medio locari solet.

SECUNDA Græcis *ἀπόφυσις* dicitur; vocant item *προβολὴν*, *ἐκφύσιν*, &c. Latinis dicitur *processus*, productio, projectura, extuberantia, &c. est pars ossis non contigua, ut epiphysis, sed continua, protuberans ultra planam superficiem, quales multæ sunt in vertebris dorsi, item maxilla inferiore.

Usus præcipuus est ad partium, ut musculorum, ortus atque insertiones.

TERTIA *ἐπίφυσις*, seu appendix, adnascentia, additamentum, est os ossi adnatum, per contiguitatem simplicem & immediatam, quamvis non adeo plana superficie, sed [illegible] mutuo capitum sinuumque ingressu instar ginglymi, licet absque motu.

Substantia ἐπιφύσεων est rara & laxa, primo orta fere cartilaginosa, sed induratur in adultis, atque in os abit [illegible] in senibus adeo unitur *ἐπίφυσις* cum osse, ac si unum continuum os esset.

Extremitatibus *ἐπιφύσεων cartilago* adponitur.

Sed non omnibus ossibus datæ sunt hæ adnascentiæ, variæ tamen reperiuntur, ut in scapula, in ossibus coxæ & tibiæ ut in pluribus videre est ad genu & pedem, &c. Item [illegible] vertebræ, rotator magnus, styloides appendices, epiphyses sunt.

Usus ἐπιφύσεων.

1. In medullosis ossibus esse instar operculorum, ne effluat medulla.

2. Ad firmitatem. Nam firmior est basis, quæ latior & amplior.

3. Ut ex his ligamenta oriantur.

4. *Porro*, ut quasi intermedia materia essent inter os & ligamenta interenda, sicut inter cerebrum & cranium membranæ.

Apophyses dicuntur alicubi *capita*, alicubi *cervices*, alicubi *tubercula*, alibi *spina*, alibi *mucrones*. Partes vero ad finium orbem instar labrorum prominentes, & sinus profunditatem augentes, dicuntur *supercilia* & *labra*.

CAP. II.

DE CARTILAGINIBVS IN GENERE.

CARTILAGINES post ossa sunt partes similares durissimæ & fere ejusdem cum ossibus naturæ: nam quæ animalia ossibus carent, his cartilago ossium vicem gerit, inquit *Aristoteles*.

Differunt tamen, quod molliores sunt ossibus, [illegible] tus [illegible] partes [illegible] gesti temporis [illegible] vertantur, ut ex [illegible] lo fecit Mo[illegible] denfis etiam docet *Cardanus* cui aspera art[illegible] offea [illegible] fecit. Epiglottidem osseam observavit *Pavius*. Cartilaginem quoque scutiformem in duritiem substantiam [illegible] seam mutatam, plurima *Heurnii* [illegible] conformia [illegible] sim scelera monstrant quod & nos in sectionibus observavimus, & ante nos *Fallopius* de thyroide & cricoide, *Riolanus* de arytænoide quoque, non tamen [illegible] quæ tamen [illegible], pubis, [illegible], narium & [illegible] Deinde cartilago est [illegible] in [illegible] ossificantur. Deinde cartilago est absque medulla, atque cavitatibus & cavernulis.

Efficiens est vis *χονδροποιητικὴ*, cartilaginifica.

Materia eadem *Aristoteli* quæ ossium, a quibus [illegible] *Galeno* est terra [illegible] vult tantum [illegible] magis & minus. *Galeno* est [illegible] pars terrea sed humida [illegible] partim viscosa & glutinosa, partim pinguis [illegible] sed magis viscosa quam pinguis.

Usus 1. & primarius est motum faciliorem [illegible] juncturis, & diuturniorem [illegible] partes ossium [illegible] attritu lædatur motus. Hinc [illegible] articul[illegible] tionum cartilagines incrustantes duo ossa inter se [illegible] coarticulantur.

2. Partes ab injuriis externis tueri. Non enim facile contunduntur aut rumpuntur [illegible] lenæ sunt & [illegible] nec facile contunduntur aut [illegible], quemadmodum molles & carnosæ partes. Hinc narium extrema cartilaginea sunt. Hinc sterno & costis cartilagines apponuntur ad defensionem cordis & pulmonum, atque cartilago [illegible] pars, ad diaphragmatis ortum [illegible] ventriculi [illegible].

3. Connexionem facere ossium, *συγχόνδρωσιν* dictam.

4. Partes prominentes efficere, vel cavas formare [illegible] quæ in auribus, larynge, & trachea.

5. Cavitates [illegible] præsertim in articulis, ut patet in genu.

6. Operculi operam præstare, ut in epiglottide.

7 Loco fulcri aliquid sustentare, ut faciunt cartilagines palpebrarum, quibus pili infiguntur.

Situs est varius, nam in diversis partibus reperiuntur cartilagines, in palpebris, naso, aure, larynge, trachea, spina, thorace, articulis, de quibus singulis suo loco.

Magnitudo itidem variat: sic &

Figurae diversae sunt, ut annularis, scutiformis, ensiformis, &c.

Connexio. Aliae cartilagines per se constituunt partes, ut nasi, xyphoidis, coccyx: aliae connascuntur ossibus, quae connectunt vel absque alio medio, ut in ossibus pubis & sterni, vel intermedio communi ligamentorum, ut in connexione per *Synchondrosin*.

Substantia aliae [illegible] sunt ut quae osseae evadunt cum tempore, aliae molliores articulos colligantes, & ligamentorum naturam fere referentes, unde [illegible] vocantur.

Quamvis autem dura sit substantia, tamen flexilis est & lenta, quia minus frigida, siccaque quam os, deinde mucositatem circumfusam habet.

Estque haec substantia sensus expers, quia nervorum & membranarum consortium non agnoscit. Nec sentire decebat, ne in motu, quando invicem allidantur cartilagines, dolor excitaretur.

Reliqua cum ossibus conveniunt.

Cap. III.

De Ligamentis in genere.

Ligamentum, vel *vinculum*, Graecis *σύνδεσμος* dicitur. Antiqui ut *Hippocrates, Aristoteles*, & alicubi etiam *Galenus* vocarunt *nervum*, item *nervum colligantem*, quia similis & eo [illegible] nervum [illegible], & aliquando [illegible] ligamenti [illegible] potest [illegible] partes, quae plures colligat. Item ligamentum a *Galeno* dicitur [illegible] musculi, cuius pars tendinem abire putatur. Hae omnes impropriae sunt acceptiones, [illegible] ligamentum jam explicabitur.

Efficiens est vis ligamentifica.

Materia est seminis pars lenta & tenax.

Usus. Corporis partes, praesertim ossa, instar funiculi firmiter colligare, & ita custodire in capite, thorace, dorso & artubus, ne fiat luxatio.

Ratione tenacissimae adhaesionis dicitur ligamentum *vinculum*

 sium

(cum alias ex tendine nascatur, ab osse primario, a [illegible] cartilagine, osse cartilaginoso, vel membrana & inseri-[illegible] os, cartilaginem, musculum vel partem [illegible]. Ant-[illegible] inter ossa nascuntur ligamenta, vel [illegible].

Situs. Alia intrinsecus sunt inter ossa ut ligamenta car-tilaginea dicta, quae crassa & fere rotunda. Alia extrinsecus ossibus obvolvuntur, quae teretia & membranosa.

Figura alia sunt lata, quae membranosa vocant Ana-tomici, ut modo dictum, alia oblonga, quae nervosa. Aristot. vocat ob similitudinem, non quod [illegible] membranosa sint aut nervosa. Sic membranosa [illegible] & teretia quae articulos cingunt, item quae tendinibus musculisque obvolvuntur.

Substantia est solida, alba, exsanguis, cartilagine mollior, solidior nervis membranisque, [illegible] quasi media inter cartilaginem & nervum.

Est absque cavitate [illegible] sensu & motu. Absque sensu esse debebat, ne perpetuo doleret in motibus [illegible] quando longiora vel breviora redduntur ligamenta [illegible] contrahuntur & extenduntur. Sunt tamen qui velint ligamenta membranea sentire, sed id per membranas, non propria substantia, debent concedere.

Nam substantia haec divisibilis est in fibras, [illegible] experientia & ipso *Galeno*, sensibiles, [illegible] [illegible]

Est vero haec substantia [illegible] *mollior* & membran[illegible] ut in omnibus fere ligamentis, quae articulos in orbem amplectuntur; & [illegible] mollior circa [illegible] quam circa coxendices, & adhuc [illegible] *durior*, & quasi torum intermedia. Alia vero est [illegible] *durior*, & quasi ex parte cartilaginea, unde etiam dicuntur [illegible] cartilaginea, [illegible] illa, quae inter ossa latent, ut quae [illegible] exit ex femoris capite in articulum coxendicis.

CAP. IV.

DE CRANIO IN GENERE.

Divisio sceleti.

DIvidimus omnia *ossa* sceleti, in CAPUT, TRUNCUM, & ARTUS, hos vero in *manus* & *pedes*.

Compages ossium capitis dicitur CRANIUM, quod sit velut *κράνος*, galea, aliis calva & calvaria.

Situs & magnitudo [illegible] cerebrum.

Figura alia est naturalis, alia non naturalis, ut vocant, [illegible] magis depravata.

Nam

Naturalis figura *rotunda* est, ut capax sit, sed nonnihil oblonga antrorsum & posterius, ubi protuberat, ut cerebellum [illegible] contineat, ad latera utrinque compressa, [illegible] anteriora versus, unde pars postica capitis capacior est. Ex qua craterem pro festis diebus confecit Alboinus, Longobardorum rex, teste *Diacono*.

Figura depravata & non naturalis multiplex est. *Figura capitis depravata.*

I. Quando deest anterior capitis protuberantia sive prominentia, & tales homines putantur insani & amentes ob [illegible] cerebri, quod anteriore parte esse debet copiosius.

II. Quando posterior desideratur.

III. Cum utraque deficit, & fit figura rotunda, qualis Turcarum creditur & Groenlandorum. Atque has tres figuras depravatas agnoscit *Hippocrates*.

Quartam figuram addit *Galenus*, quam fingi posse putat, sed non dari, cum longitudo in latitudinem mutatur. *Vesalius* vero Venetiis & Bononiae se talem observasse asserit.

Quinta addi potest etiam ex *Hippocrate* acuminata vel figura ovalis, quando caput in acutum superius ascendit: quam figuram apud quasdam gentes aestimationis & generositatis locum obtinuisse monet *Hippocrates*, fierique potest ab obstetricibus, quando fascia capita in acutum comprimunt, & ita conservant, & tandem natura talia capita à parentibus in liberos transfert. Duplicis generis hanc capitis figuram *idem* in Epidemiis notavit, cum partium robore, & aliam cum partium imbecillitate. Et talis etiam figura capitum hodie in nonnullis regionibus frequentior est, quam alias.

Sed iam adiiciemus alias figuras, quas in multis craniis observavimus, praesertim in Italia. *Aliae capitis figurae secundum Auctorem.*

VI. Cum pars lateralis dextra protuberat.

VII. Cum pars lateralis sinistra prominet.

VIII. Cum anterioris projecturae pars dextra deest, & sinistra admodum prominet, magis vel minus.

IX. Cum pars sinistra non conspicitur anterioris protuberantiae, prominente parte dextra.

X. Cum posterioris projecturae pars dextra est.

XI. Cum sinistra.

Atque ita in universum *duodecim figuras* capitis constituo, unam *naturalem* & undecim *depravatas*.

Substantia Cranii ossea est, ad securitatem cerebri mollis. Sed in nuper natis mollior est, alicubi cartilaginosa & membranosa, praeterim circa suturas, & magis in media atque suprema regione capitis, & haec omnia ob partum facilio

cil orem,at non nihil compressioni cedat. Sed est substantia crani
1. Crassa, non tenuis ut fortius externis injuriis resistat.
2. Rara, non densa, ne nimis ponderet. 2. Ut succum pro alimento contineat. 3. Ut exhalare queant [illegible]
Constat vero hæc cranij substantia raro tum [illegible] per totū & unico tabulato sine meditullio, quale in [illegible] dum [illegible], ranas [illegible] ex duplici tabulato [illegible] pariete, squama, lamina seu tabula. Alij diploen vocant [illegible] rum externo [illegible] potest. Et utraq; hæc [illegible] na externus & internus fere par [illegible] est, lævis atque den[illegible] Hinc [illegible] paret crassities calvariæ, cum utraq; fere duplex [illegible]

Dico fere, quod alij non animadvertunt nam quibusda locis cranium est simplex, tenue & pellucidum, absque medio [illegible]. Unde falluntur Chirurgi nonnulli, qui [illegible] ctione laminæ primæ, putant [illegible] secundā & progrediuntur, donec sanguis exeat. Externam laminam aliquando lues Venerea exedit, nonnunquam [illegible] gummata elevat.

Error Chirurgorum.

Raritas vero crani apparet ex *media substantia* inter utramque laminam, quam *meditullium* vocant, certis cellulis [illegible] quadrangulis, sexangulis, triangulis [illegible]. Hæc [illegible] substantia, rara est, [illegible] venulas [illegible] recipiens. [illegible] & *Hippocrates* agnovit, qui [illegible] monet omni [illegible] facultate cranium inflammari [illegible] in trepano ferramentum aliquoties lacte & aqua immergendum.

Superficies cranij externa est vel interna.

Externa superior lævis est & æqualis, inferior vel basis aspera & inæqualis, ob appendices & processus varios.

Interna superior concava, æqualis est, nisi quod [illegible] pressiones habet venarum & aliquot sinus, quibus dura mater [illegible]. Inferior maxime inæqualis est ob varias protuberantias.

Ubique vero per cranium *foramina* crebra sunt, exigua & inordinate disposita, per quæ *venula* & *arteriola* transeunt ad cavitatem ossium interiorem, & duram meningem. Aliquando tamen desunt.

Cranium ex pluribus ossibus constatum.

Tandem ad partes cranii veniamus, sciendum non ex unico osse constare calvariam, ne ex uno vulnere frangatur, sed ex pluribus, quæ per *suturas* connectuntur, de quibus sequenti capite.

Suntque alia ossa cranij, alia maxillæ.

CRANII *ossa* in adultis sunt *octo*, quorum *duo communia* sunt cranio cum maxilla superiore, nempe cuneiforme & spongiosum. *Sex* vero *propria* sunt ossa, quæ cranij [illegible] lam

[illegible] constituunt. Unum *frontis* (in recens nat. duo) duo *sincipitis*, unum *occipitis* (aliis quatuor) duo *temporum*. [illegible] auditus sex *ossa*, utrinque [illegible] *malleus*, *incus*, & *stapes*, quibus quartum additur *orbiculare*.

At[illegible] ita *quatuordecim* vel sexdecim sunt ossa perpetua *cranii*.

Usus Cranii:

I. Est domicilium & propugnaculum cerebri alias [illegible].

II. Ut per illud vapores transpirent.

A[illegible]d facit crassities & durities, ad hoc raritas una cum suturis.

In [illegible] humano nonnunquam *cornua* excrescunt, modo [illegible], modo [illegible] longitudine, interdum [illegible], interdum cuti affixa, eaque ab humore crasso, tetro & melancholico. Exempla habent *Paraeus*, *Thomaeus*, *Hildanus*, *Benedictus*, *Zacutus*, *Severinus* aliique, & nos duo vidimus unum *Patavii* in Monacho, alterum *Parmensis* in vetula [illegible] longum & durum, de quibus in Obs. nostris Novis de *Unicornu* egimus.

CAP. V.

DE SUTURIS CRANII.

SUTURA est connexionis species, imitans compagem [illegible] serrarum, vel vestium ex partibus pannis [illegible] compositionem.

Tales in humano capite plures sunt. [illegible] enim absque omni sutura reperitur caput, quale visum refert *Aristoteles*, & Her[illegible] atque [illegible] monasterio [illegible] monstratur, & passim occurrit.

A[illegible] modi homines externis [illegible] caput non [illegible] habeant, at internis maxime, cum transpiratio [illegible]. Ex quo d[illegible] *Celsum* cum *Hippocrate* co[illegible] *Fallopius* & *Columbus*, in primis *Riolanus*, [illegible] caput sine suturis [illegible], quamquamque [illegible] cum [illegible] sanus, scripsit, id quod *Robertus Constantinus* in *Celso* tentavit. — *Caput sine suturis.*

Al[illegible] diuturnitate & siccitate in senibus ita coalescunt suturae, ut vix appareant, cum in junioribus [illegible] manifestius videantur. Aliquando coronalis sola obliterata observatur; non vero facile abolitae temporales deprehenduntur, nisi omnes te[illegible], quae prius perierunt.

Numerus

Error Aristotelis.

Numerus & *Situs* suturarum idem est in fœminis atque in mare, contra quam putavit *Aristoteles*, neque [illegible] pro ratione figuræ, ut voluere *Hipp.* & *Galenus* [illegible]. Observavit enim *M. A. Severin.* [illegible] sagittalem & lambdoideam [illegible] insuper figura triang[illegible] & [illegible] nem earundem in alia calvaria, [illegible] ovalem.

In figura porro deviabunt suturæ capitis [illegible] quasdam, quæ omnes uno [illegible] exultare [illegible]. Quod in [illegible] epilepticis [illegible] Neapoli [illegible] coronam [illegible] novam Epilepticorum [illegible] causam & curationem suggesserit.

Suturæ propriæ [illegible] veræ & propriæ [illegible] & [illegible].

Veræ dicuntur quæ pectinatim coeunt [illegible] serræ, quas nonnulli [illegible] vid. [illegible] in plerisque calvariis [illegible] vulgatum est, [illegible] & [illegible] bus suturæ inter se committuntur, *Rolfinccio* [illegible] les autem [illegible] reperiri, non infrequens [illegible] quibus singularis est commune [illegible] species, *[illegible]* seu *commembranat[illegible]* [illegible] sunt etiam [illegible] puer[illegible] recedunt in Hydrocephal[illegible], quod [illegible] non semel, [illegible] *Severinus* inter Abcessus depingit, & *Donatus* describit.

Spuriæ squamarum modo & imbricatim [illegible] unde dicuntur squamosæ conglutinationes, & magis commissuræ dici possunt, cum & ad harmoniam magis accedant, quam ad suturam.

Veræ tres sunt.

Coronalis sutura cur ita dicta?

I. Anterior est, & dicitur *coronalis* 1. Quod antiqui [illegible] capitis parte coronas gestaverint. 2. Quia coronæ [illegible] circulo aliquo modo similis apparet.

Nam a temporibus utrimque ascendit per transversum ad summum capitis. Arabibus *arcualis* dicitur hæc sutura & *puppis*.

Usus est, connectere os frontis cum ossibus sincipitis adeoque ab invicem distinguere. Locus coronalis in vivente invenitur vel manu à carpo per nasum superius extensa, vel filo ab utraque aure extenso, cui transversale [illegible] ab extremo naso ducatur.

II. Huic opposita posterior est, & in occipite [illegible] *Λαμβδοειδὴς* à figura Græcæ literæ Λ, aliis *[illegible]* item *prora* sutura.

Hæc a basi occipitis ad utramque aurem oblique ascendit &

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FIGURÆ EXPLICATIO.

A Portio suturæ sagittalis
B. Sutura Lambdoidea.
C. Sectio serra facta.
D. Primum os VVormianum, sinistri ductus.
E Secundum.
F. Tertium.
G. Primum dextri ductus.
H. Secundum.
I. Tertium.
K. Magnum cranij foramen.
L L. Processus mamillares.

& in angulum co[illegible]. Aliquando enim occipit[illegible] [illegible]lum est vel alias transversa sutura di[illegible] simplex vel gemina, ali[illegible] duplex vel triplex sutura est, ac [illegible] ma-jor unum minorem, vel duos minores co[illegible] [illegible] comprehensa dicuntur ossicula triangularia, [illegible]

Ossa triangularia cranij.

commendata.

P[illegible] ossa triquetra, ossa in sutura lambdoidea invenit *Olaus VVormius*, summus Vir, utramque [illegible] [illegible] tum perforant [illegible], a paucissimis hactenus [illegible]. [illegible] ut plurimum in dextro [illegible] in sinistro [illegible] [illegible] [illegible], figura & situ [illegible], qu[illegible] [illegible] accurate [illegible]. *Infimum* ad [illegible] [illegible] [illegible] conspicitur, *medium* paulo superius [illegible] [illegible] intervallo, *tertium* ad quando longius a secundo [illegible]. Duo [illegible] bis tantum invenit *Pavius*, [illegible] suturulis circumscripta, de quibus dubitat num ad [illegible] [illegible] pertineant ossa.

Figura sunt varia, triquetra, oblonga, ovalia. [illegible] instar [illegible] in viventibus [illegible] notavi, [illegible] tactu perceperim.

In [illegible] *materia* omnia apparent. Maximum tamen [illegible] pollicis non excedit.

In concava [illegible] superficie [illegible] magis quam in convexa apparent, quare omnia observantur clarius [illegible] calvaria

Notandum tamen in diversis craniis tam numero, quam magnitudine & figura [illegible] variare haec ossa *VVormiana*. [illegible] modo quatuor [illegible] duo [illegible] dextra linea [illegible], [illegible] [illegible] sagittalis cum Lambdoidea, [illegible] [illegible] [illegible].

Usum credo 1. ut [illegible] [illegible] excrementorum exitum amplientur.

2. Ut cranium plurium ossiculorum contextu in contusionibus magis sit tutum.

Praeter haec ossa VVormiana alia observavi in variis cra-nijs [illegible] M[illegible] meo [illegible], ubi varie [illegible] [illegible] [illegible] [illegible] quam [illegible]. [illegible] calva-

Varia ossicula.

ria [illegible] conspicitur [illegible] [illegible] & lambdoideae, oblongum, [illegible] [illegible] dentatum, undique sutura circumvelatum. In eodem [illegible] [illegible] [illegible] lis sutura, [illegible] videtur, & prope coronalem ossiculum singulare constituit. In alio [illegible] a me dissecti, duplex est lambdoidea, & inter utramque ossa satis magna, quatuor conspectiora, ita tamen, ut occipitis os prae reliquis [illegible]

nent,

dextrorsum, quae protuberet quam ossa sincipitis. Sutura co[illegible] [illegible] ut [illegible] os temporum includit os [illegible] [illegible] fiat, [illegible] nunquam mari con[illegible]gitur. In sutura spuria temporali [illegible] quoque ossicu[illegible]lum tale [illegible] sutura spuria includitur.

Usus huius suturae Lambdoideae est, os occipitis distinguere a temporum & sincipitis ossibus.

III. [illegible] media est, *sagittalis* dicta, quia recta vel [illegible] [illegible] per longitudinem capitis inter coronalem & lambdoideam.

A[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] fronte meminit. Dicitur sutura haec *virgata*, item & recta.

Usus [illegible] & [illegible]

Tertia modo, a [illegible] [illegible] *squamosa*, vel *corticalis*, & *temporalis* [illegible] quia [illegible] [illegible] [illegible]. Debent [illegible] [illegible] [illegible] [illegible] squamarum, quia [illegible] temporum [illegible] [illegible] [illegible] [illegible] ponderaffent, [illegible] [illegible] [illegible] [illegible] [illegible], & [illegible] [illegible] paulatim instar squam[illegible] [illegible] [illegible].

[illegible] partes [illegible] in calvaria tales [illegible] [illegible] [illegible] [illegible] [illegible] ab ossa [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] sutura.

[illegible] [illegible] [illegible] [illegible] [illegible] Quae[illegible] dam [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] vel breves, vel [illegible], vel incurvos, [illegible] [illegible] [illegible] [illegible], vel [illegible]. Q[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. Nonnullae [illegible] os[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. Singula recensere non possumus, quia variant in variis.

Usus suturarum:

I. Ad [illegible] [illegible] transpirationem. Hinc *Hippocrates* [illegible] [illegible] [illegible] [illegible] capitis, qui [illegible] [illegible] [illegible] capita [illegible] [illegible] [illegible] [illegible]. Et *Galenus* [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] inflammationem [illegible] ex ossibus [illegible].

II. Ut [illegible] mater [illegible] suspendatur & [illegible], ne interiores cerebri partes comprimantur.

III. Ut [illegible] mater [illegible] [illegible] fibras pro pericranio & periostio constituendo.

 IV. Ut

IV. [illegible] per partum [illegible] vasa *Fallopius* venas [illegible]

V. [illegible] communicent [illegible] negat cum *Galeno Paulus*, [illegible] & *Fallopius* [illegible] nisi [illegible] fundo capite, contra [illegible] *Hippocrates* [illegible] vocat [illegible] *Celsus* [illegible] exempla [illegible] recitat *Fallopius*, [illegible] & ante hos *Soranus*, [illegible] saepe [illegible] parte [illegible] contraria [illegible] *Fallopio* notat [illegible] in opposita parte [illegible] & abscessus 2. [illegible] partes [illegible] extra [illegible]

VI. Ut topica externe applicata [illegible]

CAP. VI.

DE OSSIBUS CRANII PROPRIIS IN SPECIE.

PRIMUM os, est os FRONTIS, [illegible] *coronale*, [illegible] *puppis*; quod

Figuram habet imperfecte circularem [illegible] ubi sutura coronali circumscribitur [illegible] perfectius [illegible] oculorum sedem.

Substantiam [illegible] quam os occipitis, crassiorem quam ossa sincipitis.

[illegible] est in [illegible], sutura sagittali [illegible] duplex [illegible] continet [illegible] externa & [illegible]

Ad nasi [illegible] CAVITATES [illegible] vel sinus [illegible] maiores partes & [illegible] est depressa & sima, nisi [illegible] memorant [illegible] & [illegible] pus quoddam [illegible] & mediolosum [illegible]

Et habent [illegible] *foramina* [illegible] quod [illegible] ossis spongiosi, quo olfactus [illegible] est [illegible].

Usus harum cavitatum:

1. Ad [illegible] vocem; quia sinus hi in illis qui male loquuntur, non reperiuntur.

2. [illegible], ut in [illegible] elaboretur aer ad animalis spiritus generationem.

3. [illegible] aerem odorum vehiculum per nares attractum [illegible]

contineat: unde ad olfactus organa sensim transeat, & ad [illegible] [illegible], & mutatum ad statum natur[illegible] redeat. Unde odor sæpe per integrum diem in narium [illegible] [illegible] perseverat.

[illegible] [illegible] [illegible] non modo crassa, [illegible], quæ ad glandulam [illegible] delata [illegible].

[illegible] [illegible] [illegible] contentam [illegible] [illegible] oculumque humectare & lubricare, ut moveatur facilius.

[illegible]

7. [illegible]

Processus [illegible] [illegible] [illegible] [illegible] palpebras [illegible] [illegible] [illegible] vocat *Avicenna*. [illegible] *Helmodarus* Medicus [illegible] *Dentalium* appellat [illegible].

Foramina [illegible] de quo supra, quod [illegible] ad frontem transitu [illegible] nervorum tertiæ conjugationis ad frontem transitu, [illegible] in ala internas pro vasis medullij.

[illegible] duo Ossa Sincipitis vel [illegible] [illegible] cerebrum [illegible].

Figura sunt quadrilatera, inæqualis.

Substantia [illegible] [illegible] caput hac parte [illegible] vulnera [illegible].

In infantibus (hominum, non brutorum) pars ea, quæ ad [illegible] coronalis & sagittalis est, [illegible] [illegible] [illegible] [illegible] *fontanella* dicitur, & *fons pulsatilis*, [illegible] [illegible]. Hanc partem in adultis membranosam, [illegible] [illegible] semel tantum & [illegible] in viro quadragenario [illegible]

Vulnera sincipitis cur lethalia?

FIGURARUM EXPLICATIO.

Cranii ossa, suturæque, ut & maxillæ utriusque partes ostenduntur.

FIGURA I.

A A. *Sutura coronalis.*
B. *Sagittalis portio.*
C C. *Squamosa sutura ossis temporum.*
D. *Os frontis.*
E E. *Processus ejus ossis, ad oculi canthum majorem.*
F. *Alter processus ad canthum minorem.*
G. *Foramen pro nervorum transitu in uno latere expressum.*
H. *Os bregmatis.*
I. *Os temporum.*
K. *Appendix ejus styloïdes.*
L. *Processus ipsius Mammillaris.*
M. *Alter ejus processus, qui jugale sive Zygomaticum os constituit.*
N. *Primum os maxillæ superioris secundum Auctorem.*
O. *Secundum os.*
P. *Foramen hujus ossis, cui adjacet caruncula lachrymalis.*
Q Q. *Tertium os maxillæ superioris.*
R R. *Quartum ejusdem os.*
S. *Septum narium.*
T. *Maxilla inferior.*
u. *Foramen ejus externum minus. Majus autem interne spectatur.*
X. *Processus ejus maxillæ qui Corone vocatur.*
Z. *Alter Processus rotundus Condyloïdes dictus.*
a a. *Dentes incisores.*
β β. *Canini.*
δ δ δ δ. *Molares.*

FIGURA II.

A A A. *Sutura coronalis.*
B B. *Sagittalis.*
C C. *Lambdoïdes.*
D. *Os frontis.*
E E. *Ossa sincipitis seu bregmatis.*
F F. *Portio ossis occipitis.*

II.

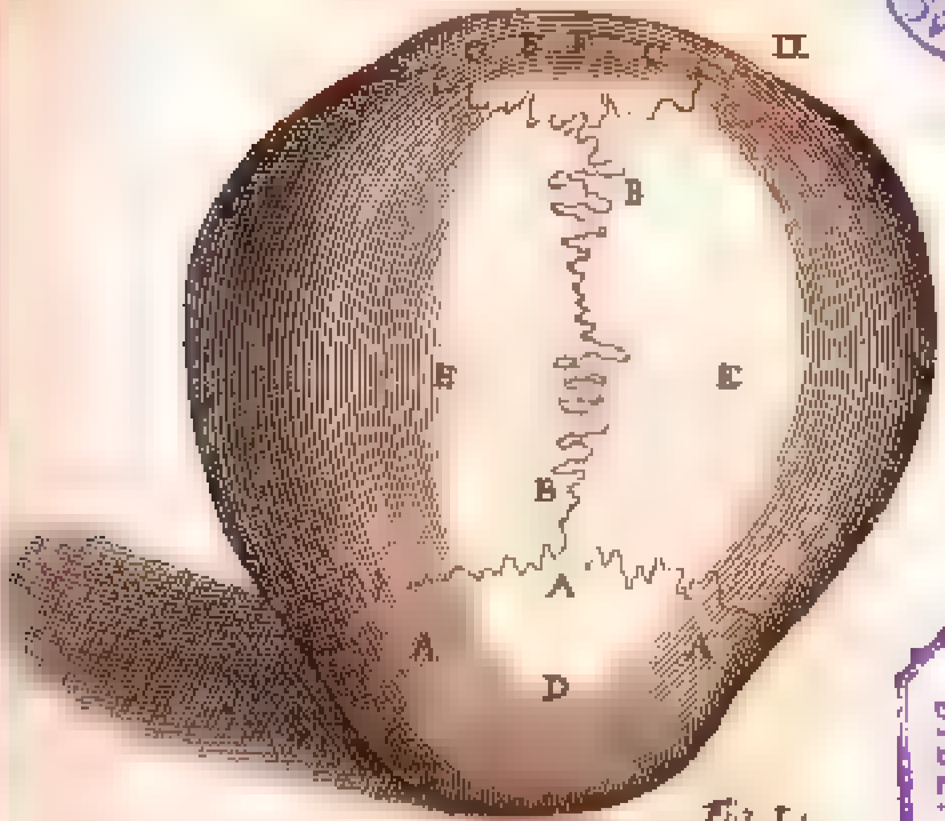
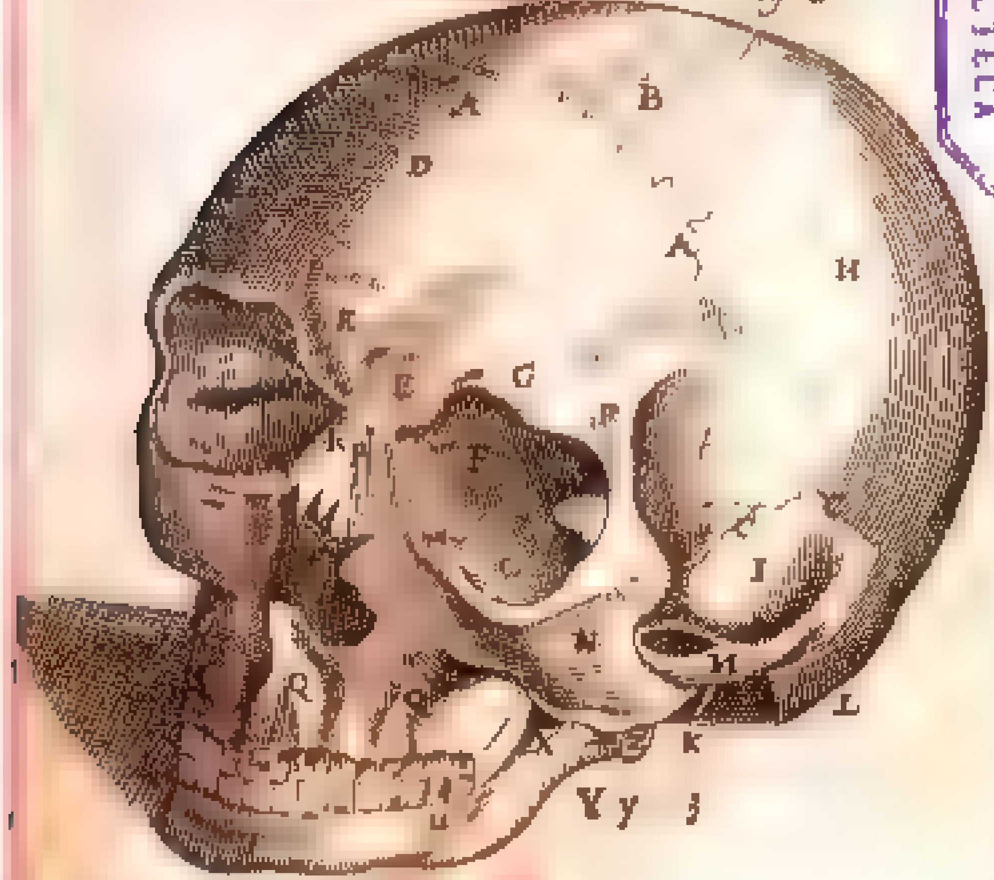


Fig. I.



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[illegible] [illegible] apertum.

Cavitates intus superficiales adsunt, venarum impressiones, & externe [illegible].

QUARTUM OS OCCIPITIS, aliis *basilare*, os *prora* [illegible] *memoria* os [illegible] [illegible] partem [illegible].

[illegible]

Figura est triangularis [illegible], *Laurentio* [illegible].

Substantia [illegible] crassissima omnium & densissima [illegible] situs est [illegible] & [illegible] [illegible] pis, ubi tenuissima est, (quare recte [illegible] respectu hoc os esse [illegible], quod *Columna* [illegible] ideo ad tutelam in ejus medio *prominentia* oblonga [illegible].

Foramina quinque habet, [illegible] mam vertebram, per quod egreditur med[illegible] [illegible] reliqua [illegible] tum [illegible] & [illegible] atque arte[illegible] [illegible] *Marchettus* [illegible] cere cala.

Sinus habet novem [illegible] superius externe [illegible] [illegible] duo [illegible] & [illegible] bi parte postica.

Processus habet anterius ab basi [illegible] epiphyses [illegible] A [illegible] primæ vertebræ sinus ad cap[illegible] processus parvus est posterius [illegible].

In cam[illegible] occip[illegible] os est [illegible] & [illegible] [illegible], quod *triangulare* [illegible] [illegible] [illegible].

Os triangulare in canclum. [illegible] [illegible]

QUINTUM & SEXTUM sunt OSSA TEMPORUM, [illegible] pes, [illegible] *parie*, *ulaxea* [illegible] item aliis *parietalia* & *arcualia*.

Figura [illegible] est (magis tamen circularis) [illegible] [illegible] & [illegible] asperitatum, unde [illegible] pars ossis petrosi [illegible] attenuantur, & ut transpareant, ubi musculis temporalibus subjacent, [illegible] [illegible] communi [illegible].

Foramina habent externa sex, interna duo. Primum externum

ternum amplum est, vide[illegible] meatus auditorius; reliqua exigua, pro transitu vasorum.

Sinus duos. E[illegible] obi[illegible], mar[illegible] inferiorem recip[illegible]. Lat[illegible], ossi occipitis com[illegible].

Appendicem habet quodlibet acutam o[illegible] & gracilem, unde *Styloides* dicitur, *Belenoides* [illegible], *plectrum*, &c. Levi occasione abrumpitur, unde non in omn[illegible] praesertim [illegible] adest. In adultis ossea est, in infantibus cartilaginea, nec ante 25. annum [illegible] de [illegible]. Observavit tamen *Marchettis* [illegible] perveniret, ipsisque [illegible].

Processus tres.

1. [illegible] est & obtusus [illegible] brevi & cavernosus, *mammillaris* dictus a figura.

2. Etiam externus, est [illegible].

[illegible] sive Zygoma [illegible] oculo situm non est [illegible] processibus [illegible] per suturam [illegible] communis, at [illegible] musculi temporalis tendinem tuer[illegible] loci calvaria sit tenuis. Os jugale.

3. *internus* [illegible] in quo triplex [illegible] *tympanum*, *labyrinthus*, & *cochlea*, [illegible] auditus. [illegible] os durum dividit, [illegible] cavitatem detegit, & ossicula au[illegible] monstrat. Si vero exterior meatus ante tympani [illegible] adnumeretur, quatuor erunt cavitates meatus auditorii, licet Veteres [illegible] tantum cavernae mem[illegible].

I. Cavitas Tympani [illegible] *Aristotelis* *cochlea* est statim post [illegible], cui ossicula *circa membranam* [illegible] inseparabilis, in [illegible] ossicula, ligamentum, & mu[illegible] & aquae ductus, & ab hac cavitate [illegible] tempore congenitum & a natura [illegible] transmittens. Cavitates in ossibus petrosis.

Fenestrae sunt duo parva [illegible] cavitas [illegible], in medio cavitatis [illegible] est [illegible] basis incumbit, & magna ex parte [illegible] in cochleam se aperit [illegible], & conjun[illegible] se

 etiam

FIGURARUM EXPLICATIO

Auditus organi internam structuram cum ossiculis auditus demonstrant.

FIG. I.

A A. Os Temporis.
b b b. Squamosa sutura dicti ossis.
c c. Os spongiosum.
D. Cavitas in quam nervi auditorii fit insertio.
e. Circulus osseus.
f f. Gyrus major cochleae.
g g g. Tres semicirculi ossei Labyrinthum efformantes.
h. Malleus in situ.
i. Incus.
k. Stapes.
l. Musculus auris externus.
m. Musculus auris internus, de quibus musculis vide lib. 3 cap. 9.

FIG. II.

a a a. Labyrinthus.
b. Cochlea.
c. Foramen ovale in quo situs stapes.
d. Aquaeductus Fallopii.
e. Fenestra rotunda.
f f. Exigua foramina pro vasis venularum & arteriolarum.

FIG. III.

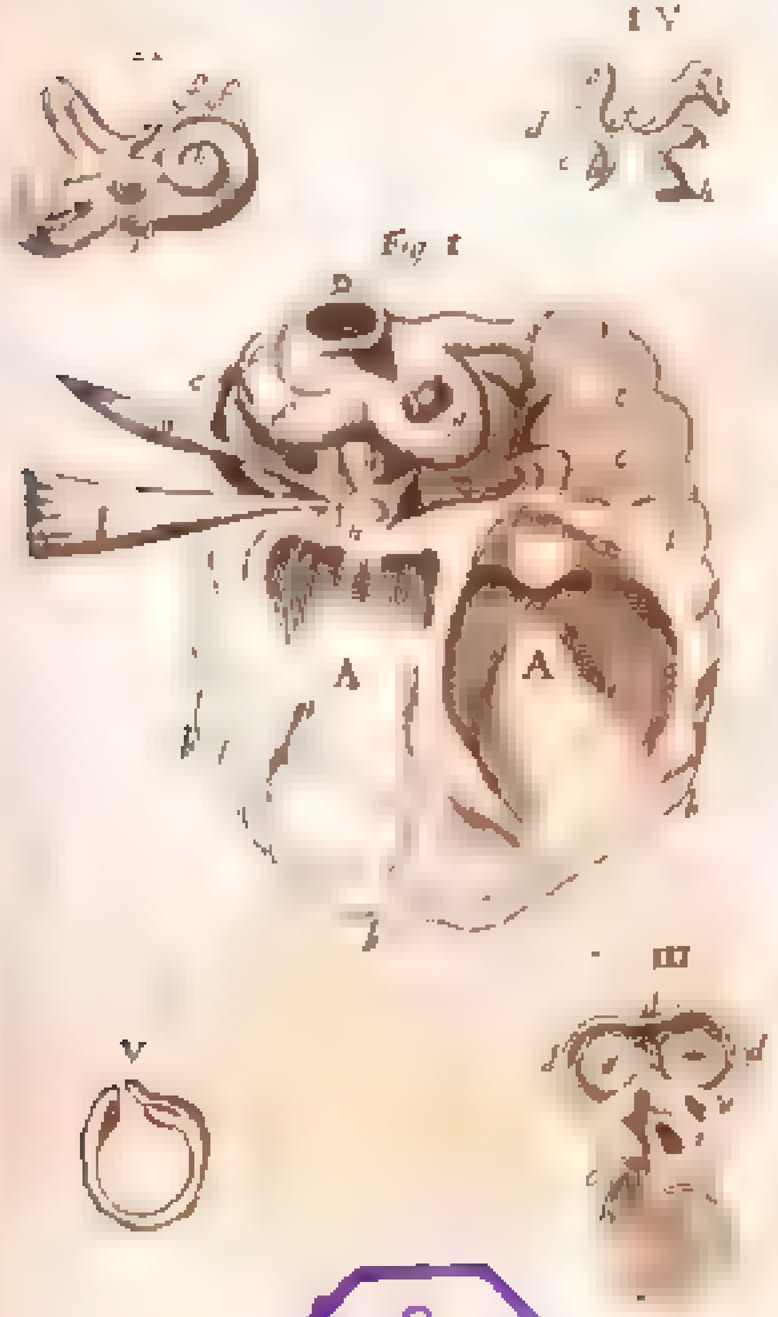
a a. Cochlea dissecta.
b b. Intermedium quoddam cochleam in duos gyros dividens.
c. Foramen rotundum in cavitatem auditus, & in extimam cochleae cavitatem finiens.
d d d. Labyrinthi circumvolutiones apertae.
e. Fenestra ovalis.

FIG. IV.

a. Caput mallei rotundum.
b. Ejus extremitas, quae tympano adnectitur.
c. Processus minor mallei.
d. Subtilior & longior ejus processus à Folio primum observatus.
e. Incus, cujus superior pars sinum habet pro mallei capite recipiendo.
f. Processus incudis longior cui stapes alligatur.
h. Stapes.
i. Quartum ossiculum rotundum ligamento stapedi annexum, Fr. Sylvio observatum.

FIG. V.

Ossium circulum infantium, cui membrana tympani adnectitur, exhibet.



OSPEDALE
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ACCADEMIA

et aut *foramini posteriori*, quo *humidus* [illegible] bus atque angustius, & [illegible] duos ea [illegible] ma ossea [illegible] cochleam petit, altero labyrinthum, & posteriore [illegible] nalis dicitur *aqua ductus*, item *meatus cochleatus* [illegible] *cavus, capreolaris*, ob tortuosum ductum, per [illegible] deducitur pars nervi [illegible] major cum [illegible]

[II.] R[illegible] & p[illegible], LABYRINTHUS [illegible] *& fodina* [illegible] post fenestram ovalem [illegible] tate [illegible] Alii ac [illegible] vocant *fornicatum* [illegible] excavat [illegible] vel *fun*[illegible] in tres [illegible] fen [illegible] & [illegible] vel tos, [illegible] acc[illegible] hanc, & [illegible] patet, [illegible] in cerebrum [illegible] Quatuor foramina [illegible] patet, præter ovale & quintum quod in cochleam terminatur.

III. COCHLEA dicitur ob flexuosum circu[illegible] alius *cavitas cochleata, buccinata, antrum buccino*, [illegible] Nam gyros tres vel quatuor se mutuo excipientes [illegible] tantum vel duos quibus obtusior auditus habet & [illegible] sima atque mo[illegible] [illegible] la face [illegible] [illegible] ornatur, quæ circa Cochlear gyros [illegible] varias propagines [illegible] labyrinthi secreto percipiunt.

CAP. VII.

DE OSSIBUS AUDITUS.

SEquuntur octo alia ossa capitis, quæ minima, utrinque quatuor, AUDITUS OSSICULA, dicta à forma: MALLEUS, INCUS & STAPES, & ORBICULARE, antiquis plane incognita, quorum [illegible] priora invenit *Jacobus Carpus* [illegible] item postea fecit *Massa*, *Jacobus Sylvius* & *Vesalius*: hic vero à *Fallopio* monitus tert[illegible] eandem quoque [illegible] cujus primus inventor est *Ingrassias*, [illegible] *Eustachius* & *Columbus* sibi inventionem arrogeat.

Quartum os auditus invenit nobisque monstravit *Franciscus Sylvius*, rotundum, exiguum *Nic. Fontana* [illegible] p[illegible] sup[illegible] simile *Leidana* cochleare vocatum Stapes [illegible] [illegible] per tenue [illegible] ad latus [illegible] [illegible] in coctis vitulorum [illegible] [illegible] in homine majus [illegible], reperies facilius, quanquam [illegible] homine appareat extra. *Pavius* in [illegible] capite [illegible] huic simile *sesami* forma observavit.

SITA sunt in cavitate prima seu concha.

Eustach

Substantiam [illegible] & [illegible] cavam, ut [illegible] cohaerent, nullo [illegible] efficiant, [illegible] attribuantur, [illegible] perfecta sunt, & ma-[illegible] humida, [illegible].

Connexio. *Malleus* processu suo [illegible] adhaeret [illegible] tympani ultra medium, [illegible] cauda, [illegible] caput incudis cavitati articulatur, [illegible] habens [illegible] musculi rotundi, habet & [illegible] a *Casserio* [illegible] primum observatum, cui [illegible] musculus alter, [illegible] externus. Ossiculo transversim incubat, cum [illegible] forsan in adultis coalescat, [illegible] in pueris tantum conspicuus, in aliis facile rumpitur ob subtilitatem, quando eximuntur ossa.

Stapes [illegible] malleo subjacet habens [illegible] inferne duos processus [illegible] breviorem [illegible] longiorem [illegible] basi [illegible] ossis triangularis, quod cochleae [illegible], dum ba-[illegible] fenestrae ovali [illegible], cui [illegible] ligamen-[illegible] & [illegible] leviter quidem attolli, non vero [illegible] possit.

Tria haec ossicula *ligamento* tenuissimo *junguntur* quod [illegible] membranae, ut nervus tympano [illegible], circumten-ditur.

Usus ossiculorum est: Non quod [illegible] per-[illegible], sed ut species soni excepta [illegible] via pateat. Nam stapes [illegible] & [illegible] excrementis [illegible], ab incude move-[illegible] super [illegible] species [illegible] in nervum [illegible] membranula tympani [illegible] & [illegible] a malleo [illegible] propugnaculo est [illegible] intro pel-[illegible] congenitus affici-[illegible] haec, & [illegible] ut nervi [illegible] pro-[illegible] cochleam [illegible] delatas suscipiant, [illegible] per [illegible]. Atque [illegible] malleus tantum [illegible] & [illegible] movetur, [illegible] commovetur. In [illegible] vero [illegible] membrana tympani, a musculo illo interno a *Casserio* invento.

Auditus quomodo fiat?

CAP.

FIGURARUM EXPLICATIO.

Quarum 1, 2, 3. ex *Bilsio*, reliquæ ex *Pavio*.

FIGURA I.

Partem ossis petrosi secundum naturales eius suturas a se invicem dissecti continet. Hîc videre est

A A. *Concham.*
B. *Tympanum.*
C. *Malleolum.*
D. *Incudem.*

FIGURA II.

Ossis petrosi partem eodem modo dissecti ind est. Hîc habes

E. *Stapedem nonnihil à foramine ovali prominentem.*
F. *Quartum officulum tenui vinculo stapedi annexum.*
G. *Foramen ovale.*

FIGURA III.

Officula extracta tria describit eadem forma qua loco suo naturali coniuncta sunt. Hîc ostenduntur.

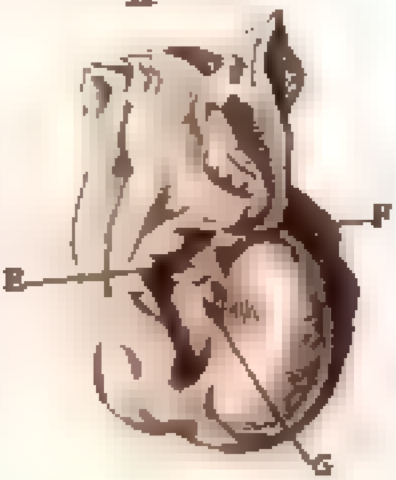
H. *Malleolus.*
I. *Incus.*
K. *Stapes.*
L. *Officulum quartum.*

FIGURA IV. V.

Meatum auditorium exhibent.

A. *Initium auditorij meatus.*
B. *Circulus limbo prominens, cui alligatur tympani membrana.*
C. *Cavernula, ubi conspicua ubi tympanum desinit.*
D. *Foramen in processu quarto ossis petrosi, per quod ingreditur auditorius nervus.*

II



III

IV

V

[library stamp]

CAP. VIII.

DE OSSIBUS CAPITI & maxillæ superiori communibus, Cuneiformi & spongioso.

OS [illegible] seu CUNEIFORME [illegible] ossa [illegible] *sphenoides* [illegible] exa[illegible] tra proc[illegible] os *palatinum*, os *basilare*, os [illegible] *paxillum*, &c.

Situm est in media basi capitis, & cerebro [illegible] substernitur, ita ut omnia fere capitis & maxillæ superioris ossa tangat.

Os *unum* est in adultis: at primo consit ex quatuor postea unitis.

Processus varii sunt.

Externi [illegible] ad pala[illegible] latera [illegible] *formes*, [illegible] longo donantur.

Interni [illegible] parvi [illegible] habentes [illegible] *Turcicæ*, [illegible] glandu-*la pituitaria* excipienda.

A[illegible] *antrum* est foraminulentum ut aër inspiratus [illegible] necessitatem elaboretur & ut excrementa [illegible] per intus [illegible] cerebri [illegible] ossis hujus foramina in palatũ [illegible] ferri probat [illegible] Non tamen ad [illegible] tantum condita [illegible] animalibus quæ majorẽ [illegible] habeat glan[illegible] etiam & majora ei subsunt foramina. [illegible] continere vasa idem deprehendit.

Foramina [illegible] varia, pro [illegible] valorum N[illegible] 1. Per quod nervus opticus ad oculos [illegible] 2. [illegible] nervo [illegible] par [illegible] carotidis ad oculos. 3. Longum pro nervo tert[illegible] par[illegible] & [illegible] ad musculos anguli externi, & octav[illegible] 4. Ro[illegible] [illegible] oculi [illegible] qua portione nervi [illegible] maxillæ superioris. 5. Ovale pro tertia portione nervi [illegible] est paris ad linguam & maxillam inferiorem. 6. Longum sub ephippio, quo arteriæ carotidis ramo [illegible] brum. 7. Ovale exile, pro ramo minori venæ jugularis [illegible]

tendit

[illegible] duram matrem [illegible]. Ita confusionem *Riolani* [illegible] *Marchettus*.

O[illegible], *spongiosum* vel *spongiforme* in media [illegible], & [illegible] cavitatem [illegible], dicitur etiam *ethmoides*, *cribriforme* vel *cribrosum* [illegible].

Pars ejus superior, qua capiti [illegible] foraminibus, cribri instar, sed tortuosis & anfractuosis, non rectis, pervia est, atque hæc pars proprie est [illegible] debet cribrosa.

Habet [illegible] *acutum processum*, *cristam galli* [illegible] [illegible] hoc os in duas partes. [illegible] *dura* interne apponitur. [illegible] pars [illegible] exterior est, quæ in [illegible] cavitate extra [illegible] continetur, rara & [illegible] [illegible] spongiosa proprie dicitur.

Hoc [illegible] & [illegible] planum tenuem, solidam & lævem [illegible] portiuncula [illegible] maxime superioris pars est, ut [illegible] *Vesalius*.

Usus partis spongiosæ est, [illegible] cum odoribus aërem arcere.

Usus partis cribrosæ primarius est.

1. A[illegible] pro [illegible] animali.

2. Ut [illegible] species cum aëre [illegible] ad processus [illegible], olfactus organa, quæ in hæc foramina de[illegible]. [illegible] in Co[illegible], obstructo hoc osse, perit odoratus actio.

Secundarius usus est cerebri expurgatio. Non enim tantum per gl[illegible] pituitas [illegible] ad palatum expurgatur pi[illegible] [illegible] os cribrosum atque nares, si superiores [illegible] cerebri ventriculi nimia pituita affluant. C[illegible] [illegible] est h[illegible] fluxus. Nam [illegible] docet nec [illegible] matrem instar huius cribri perforatam esse, [illegible] per illa foramina transmittere filamenta [illegible], vel [illegible] nervos [illegible] a dura matre ad interiorem narium tunicam.

Cap. IX.

DE OSSIBUS MAXILLÆ IN GENERE.

Ossa Maxillæ sunt fundamenta totius faciei, & supra os quidam *maxilla superior*, infra *inferior*. *Superior* enim, quam *Celsus malam* vocat, est faciei pars ossea

offea, comprehendens oculorum orbitæ partem inferiorem, & laterales, nares, malas, palatum, & dentium superiorum ordinem.

Atque hæc maxilla in homine brevior & rotundior est quam in brutis, ad venustatem. *Sanguardio* ut homo, cujus perfectius formare & articulatas voces proferre valeat. [illegible] immobilis est & in animalibus, excepto Psittaco, [illegible] *Aristotele & Plinio*, [illegible] & Crocodilo [illegible] teste [illegible] [illegible] maxillam solam moveat, [illegible] [illegible] & [illegible] totum [illegible] [illegible] [illegible]

Inferior vero maxilla in [illegible] mobilis est, excepto Crocodilo, quod [illegible] ossibus temporum [illegible] habet, ut [illegible] movere nequeat. Psittacus vero utramque movet.

Connexio est [illegible] maxillæ superioris, per [illegible] vel harmoniam, cum ossibus propriis [illegible], ex quibus conflatur, & aliis circumjectis ossibus, [illegible] per *σύγχονδρωσιν* quæ in medio mento est. Sed [illegible] ita cartilago in os mutatur, ut unicum os esse videatur [illegible] [illegible] [illegible] ex [illegible] constituunt.

In [illegible] vel [illegible] maxillæ *Galenus* [illegible] vocat *φάτνας* [illegible] occurrunt, quibus [illegible] *Barbari* [illegible] *Latini alveolos* *loculos*, *fossulas*, *præsepiola*, *mortariola*.

Hi alveoli [illegible] ratione, sunt modo simplices, vel triplices, [illegible] obstructantur, & [illegible] dentibus [illegible] vel evulsis. [illegible] ratione [illegible] [illegible] novis [illegible] excrescentibus. In [illegible] [illegible] dentibus alveoli [illegible], & circa [illegible] [illegible] [illegible] ad manducationem [illegible] vicem subeant.

CAP. X.

DE OSSIBUS MAXILLÆ SUPERIORIS PROPRIIS.

OSSA MAXILLÆ SUPERIORIS PROPRIA sunt *senarium*, utrinque quinque, & unum est [illegible].

PRIMUM [illegible] triangulare, constituit partem orbitæ oculi interiorem, Canthum minorem, partemque ossis jugalis & malæ.

SECUNDUM efficit Canthum majorem, ubi foramen est

in nares pervium, cui adstat caruncula lacrymalis, foramen illud vocatur *punctum lacrymale*, cum caruncula supra [illegible]

Hic fiunt abscessus, quos [illegible] vocant, qui si impe-[illegible] os penetrant, unde fistu-[illegible] lacrymalis [illegible] medicamenta & alia transeunt.

Locus affectus in ægilope.

Est [illegible] os parvulum & inter ossa maxillaria superiora [illegible] ut facile fran-[illegible] & deper-[illegible] raro reperitur in calvariis e terra [illegible]

[illegible] maximum est, unde constituuntur palati [illegible] & [illegible] magna, dentes continens. [illegible] & foramina quæ vasa transmittunt [illegible] & sanguinis, tum ad [illegible] tum ad medullam [illegible] pro [illegible] ossium & superiorum dentium. [illegible] processum vocant. In pueris pri-[illegible] excavan-[illegible] & tenui membranula lucis [illegible]

Quartum cum suo compari constituit partem [illegible] con-[illegible] ossium.

[illegible] solidum & quadratum [illegible]

[illegible] duo [illegible] ossa [illegible] Inter-[illegible] cartilaginem.

[illegible] os [illegible] adhærens pro-[illegible] ossis spongiosi, quod *septum narium*, quia nares di-[illegible]. Hæc [illegible] ossa oblonga [illegible] appellat *Rolfincius* [illegible] situm positum sit u-[illegible] In singulis cavitas observatur.

[illegible] extremum, ubi [illegible] foramina ad fauces [illegible] est. A [illegible] distorque narium [illegible] media, & [illegible] amplitudinis palati [illegible] partem posteriorem. Sunt tenuia, solida & lata.

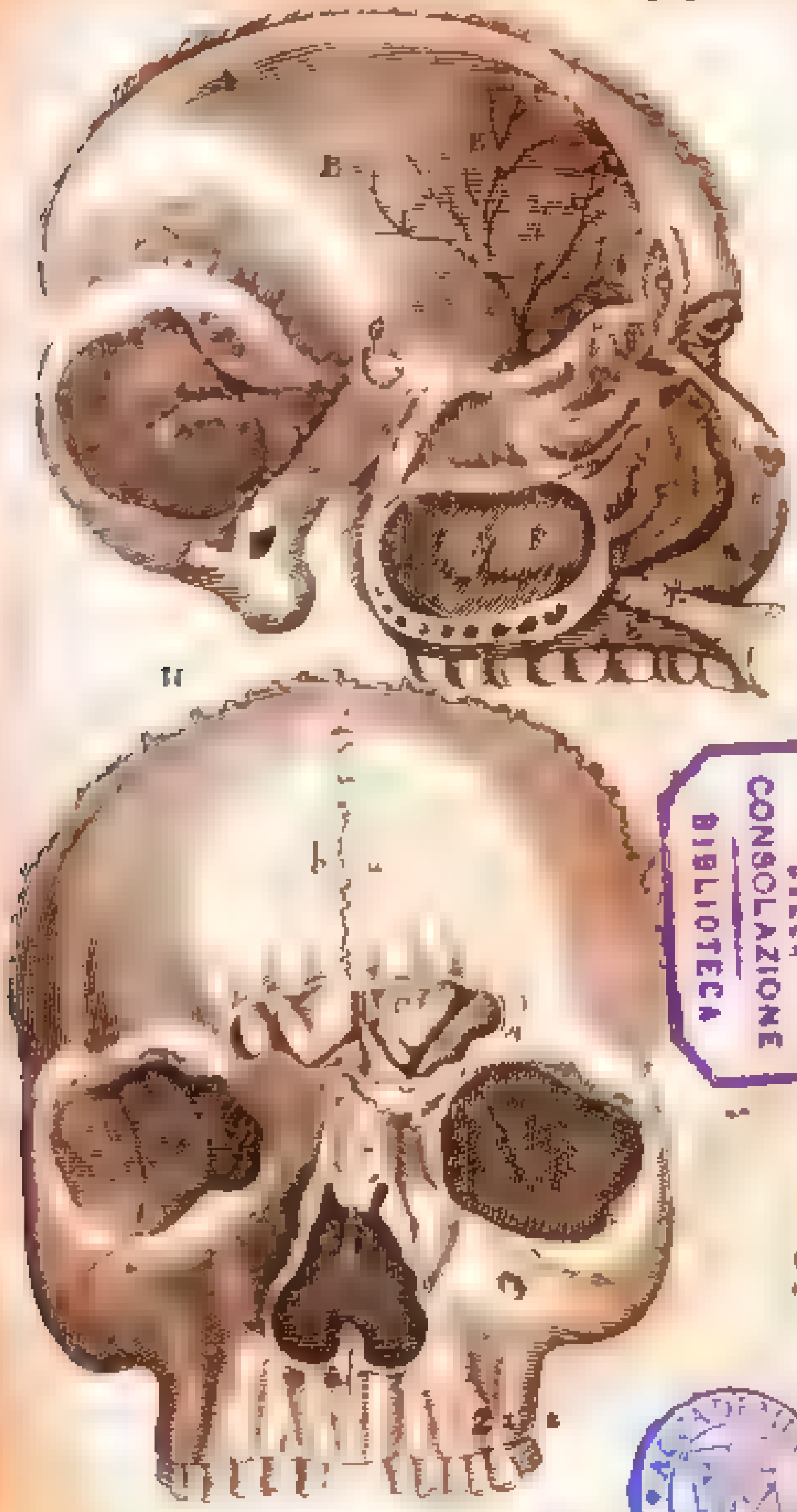
[illegible] adest [illegible] *decimum* aratro simile, *Vomer* dictum, supra [illegible] & medium, partem [illegible] narium instar septi dividens.

FIGURARUM EXPLICATIO.

Primâ nasi spongiosa, Cavitas in osse frontis, & ductus ab illis ad maxillæ antrum, exhibentur. Ex *Highmoro*.

A A. *Cranium effectum cum medullari interstitio.*
B B. *Interior cranii pars.*
C. *Cavitas ossis frontis.*
D. *Cavitas altera à priore ad narium cavitatem descens, à qua ductus in aliam ad maxillæ antrum fertur.*
E. *Narium cavitas.*
F. *Antrum maxillæ.*
G. *Glandula pituitalis in sella.*
H. *Ductus à sella ad palatum.*
I. *Os maxillæ supra palatum superjectum.*
K. *Palatum cum dentibus maxillæ infixus.*
L L. *Vestigia venarum in cranio insculpta.*
a. *Crista galli.*
b. *Os cribrosum.*
c. *Meatus à cerebro ad cavitatem illam in osse frontis ducens.*
d. *Ductus à cavitate inferiore frontis ad antrum maxillæ.*
e. *Unà superior cavitas se in inferiorem exonerat.*

Secundâ Cavitas Ossis frontis proponitur ex *Pawio*.



OSPEDALE DELLA CONSOLAZIONE BIBLIOTECA

FIGURARUM EXPLICATIO

Inferior calvariæ pars interiori & exteriori sua facie conspicienda præbetur.

FIGURA I

A A A A. *Duplex cranij tabulatum cum intermedia substantia medullosa cernitur.*

B. *Cavitas seu foramen in osse Frontis, in narium amplitudinem desinens.*

C C. *Os cribrosum plurimis foraminulis pertusum.*

D. *Ejus processus acutus, Cristam galli referens.*

E E. *Duo processus interiores anteriores ossis sphenoidis seu Cuneiformis.*

F F. *Duo processus interiores, posteriores ejusdem ossis.*

G G. *Foramina ejusdem ossis pro nervis visoriis egressu.*

H. *Sinus in sella medio incisus, quo glandula pituita continetur.*

I. *Sinus alter cui nervorum opticorum coitus innititur.*

K K.
L L.
M M. } *Foramina denotant Ossis Cuneiformis pro vasorum transitu.*

N N. *Processus petrosus ossis Temporum.*

o o. *Foramen ejus processus nervo auditorio transitum præbens.*

p p. *Additamentum ossis occipitij.*

Q. *Maximum foramen ossis occipitij per quod spinalis medulla elabitur.*

R R. *Sinus ossis occipitis intra cranium, in quibus cerebellum recumbit.*

FIGURA II

A A. *Quartum os maxillæ superioris, sutura distinctum.*

B B. *Os jugale.*

C C. *Foramina in narium amplitudinem dehiscentia.*

D. *Septum narium.*

E. *Undecimum os maxillæ superioris* Columbo *dictum aratro simile.*

F F. *Processus externi ossis Cuneiformis, alas vespertilionum exprimentes.*

g g. *Processuum horum cavitas.*

H H. *Sinus ossis Temporum, caput maxillæ inferioris excipiens.*

I. *Additamentum ossis occipitij.*

K K. *Processus ossis Temporum Styloides.*

L L. *Processus Mammillares.*

M M. *Duo capita seu processus ad basin ossis occipitis, quibus prima vertebra inarticulantur.*

N. *Foramen maximum ejusdem ossis.*

O O. *Ossis occipitis utrinque latus, variis protuberantiis donatum.*

FIGURA III & seq. ex Pavio.

A. *Dens molaris radicibus quaternis.*

B. *Dentes varij*

C. *Appendices quæ sunt loco radicum dentibus.*

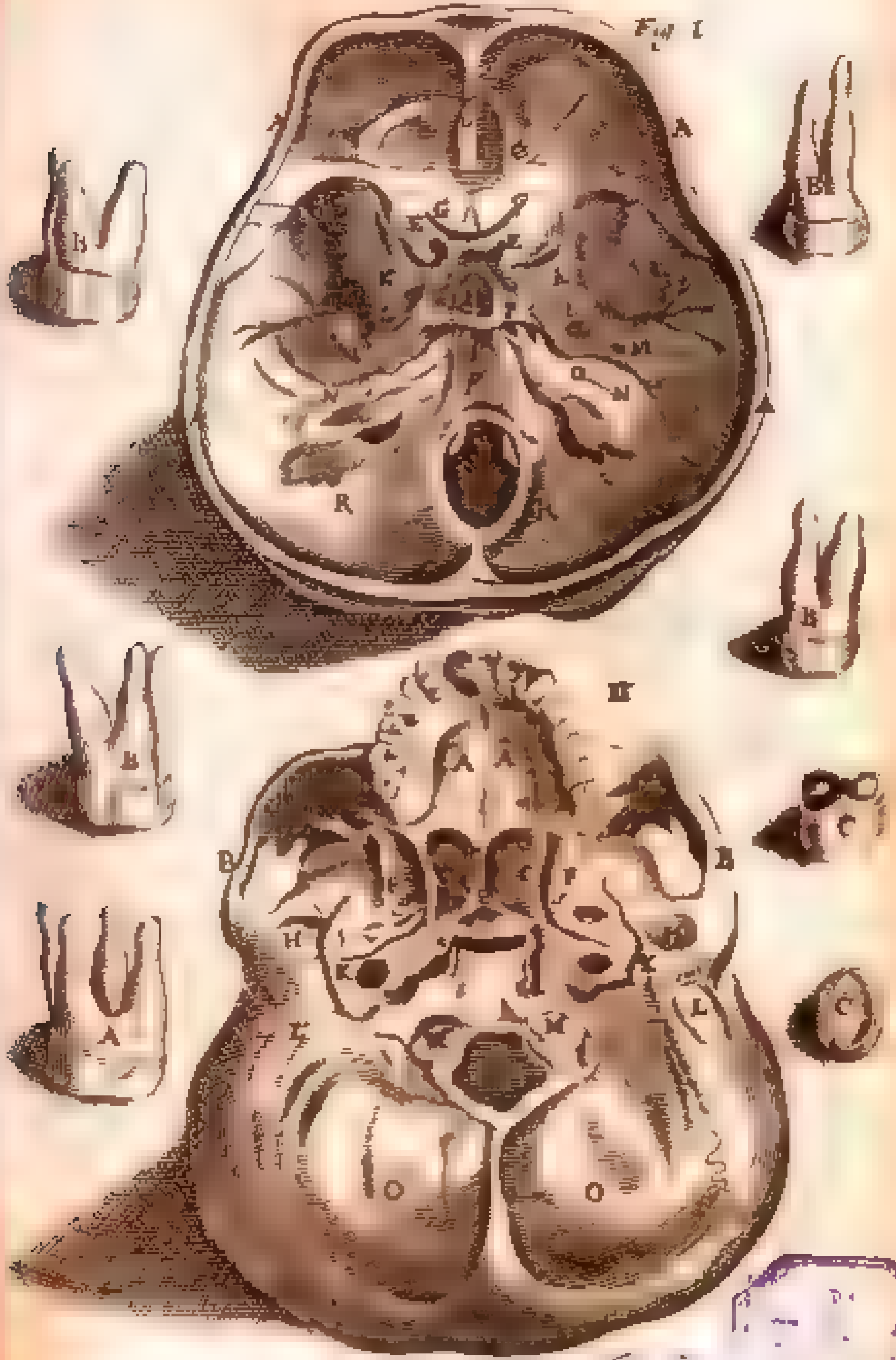


Fig. I
II

CAP. XI.

DE MAXILLA INFERIORE.

MAXILLA INFERIOR in adultis ex unico osse constat, in puerulis incerto tempore *Sanguerdio*, ad annum vel decennium *Riolano*, nobis cum *Laurentio* nonnunquam ad septimũ usque annum ex duobus, per [illegible] junct[illegible].

Figura ejus est Graecae literae υ, vel arcus.

Substantia est durissima & valde firma, ut in mordendo & manducando perduret, intus cava, ubi medulla continetur pro nutritione sui & dentium.

Foramina habet utrinque duo, quae instar fistulae continue per maxillam feruntur, ita ut ferrum aliquod per unum & per alterum emissum, exire queat.

Aliud est *internum* posterius & majus, intromittens tertii paris nervorum nobis dicti quinti paris, ad dentium radices, cum venula & arteriola.

Aliud est *externum*, minus rotundum, per quod dicti ingressi nerv. propago extra emittitur ad labrum inferius.

Asperitates habet & *sinus* varios, ob musculorum ortus & insertiones.

Processus item utrinque binos, *cornua* dictos, sursum delatos.

Unus antrorsum fertur, latus & tenuis, cujus cuspis vel acuta pars dicitur [illegible], in quam musculi temporalis tendo implantatur. Unde inferioris maxillae luxatio *Hippocrati* lethalis.

Alter posterior *retrorsum* fertur, tuberculum referens, & dicitur [illegible], habens capitulum cartilagine obductum, sub quo cervix oblonga.

Per hunc processum fit articulatio cum osse temporum, ubi adhuc alia *cartilago* reponitur, inter [illegible] & cap[illegible] cartilagineum, ad faciliorem motum. Obvolvit etiam hanc articulationem *ligamentum* membranosum commune.

CAP. XII.

DE DENTIBUS IN GENERE.

Dentes ab aliis ossibus quomodo differant?

DENTES quasi edentes Graec. [illegible] quasi [illegible] dicuntur, suntque ossa proprie dicta, uti alia, [illegible] & solida, laevia item & candida, ut alia ossa.

Habent aliqua peculiaria prae aliis ossibus, quae tamen ideo non excludunt eos ab ossium numero.

1. Duriora sunt ossa quam alia, ut duriora etiam côte-

[illegible] ne, & lap[illegible] [illegible] nec facie igne [illegible] pot[illegible] & cum [illegible] [illegible] 40 dies totū corpus an[illegible] dentes [illegible] a læsione [illegible] *[illegible]* [illegible] prodidit.

2. N[illegible] dentes & [illegible] [illegible], ut inter manducandum doleant.

3. [illegible] tamen [illegible] dentes primas quam [illegible] & [illegible] [illegible] teste *Hippocrate* [illegible] quam calidum, è contra quam calo.

[illegible] pars interior, [illegible] & [illegible] [illegible] & [illegible] a ferro sicut in [illegible] fulta ferrea [illegible] [illegible] non [illegible] [illegible] in quam intima, cum cava [illegible] nervu[illegible] & membranulæ [illegible] Hinc [illegible] quendam [illegible] dentem quem habebat præ aliis longissimum cum secari curasset ad [illegible] convulsa & epileptica decidit. In parte [illegible] dentis [illegible] apparebat.

Dentis pars qua sentiat?

4. Hoc secus quam alia ossa nervos intra cavitatem [illegible].

5. [illegible] tempore [illegible] fere usque ad extremum [illegible], quia [illegible] [illegible] ex manducatione & attritione, [illegible]

Dentes semper augeri.

Gutta cavat lapidem, non vi, sed sæpe cadendo.

[illegible] augescunt. [illegible] & non [illegible], [illegible] crescit longo[illegible] quantum spacium vacuum est [illegible].

Hæc confirmans *Fallopius*, at & quod novi dentes nasci [illegible], cadentibus [illegible] collegit [illegible] in dentibus remanere, [illegible], ad extremam usque senium.

Helmontius [illegible] non [illegible] esse, sed inter os & [illegible], [illegible], quia dens suo contactu [illegible] pertinacius adhæserit sive ex [illegible], carne [illegible], pomo aut legumine. Sed [illegible] tartareæ naturæ sunt assumpta [illegible] per salivam humidam, [illegible] appositione augentur, quæ modo [illegible] modo in mucum convertitur.

GENERANT [illegible] dentes in *utero*, post [illegible] illarum generationem [illegible] quælibet maxilla duodecim, vel paulo pauciores,

In utero generari dentes.

[illegible] infra dicetur de numero quatuor [illegible] sex max[illegible] [illegible] tem[illegible] cum est [illegible] dental [illegible] [illegible] pap[illegible] [illegible] lo dentes exigui erui possunt.

Erumpunt extra gingivas citius in brutis, quanquam in equis diversum sentiat *Varro*, quia ex us solidiorem cibum capiunt; in homine mense septimo vel tertius, post annum cursû, & citius superiores, non nulli citius inferiores, & [illegible]

Anteriores priùs: 1. Quia [illegible] magis acuti sunt.

2. Quia minores sunt quàm.

3. Quia os ea parte est tenuius.

4. Quia horum major est necessitas, & ad vocis formationem, & ad ciborum divisionem.

Dentitiones cur ægrescant? Atque eo tempore quo erumpunt dentes [illegible] colliquet docet *Hippocrates* oriri febres convulsiones & alvi [illegible] maxime cum caninos egrediuntur [illegible] qui a dentes [illegible] per ortus, plus, quam [illegible] [illegible]

Hi dentes habent SUBSTANTIAM [illegible] & [illegible] vam parte qua erumpunt, parte vero posteriore mollem membranam [illegible] & [illegible]

Dentes quibus temporibus cur & quando cadant? Circa septennium vero [illegible] & [illegible] *lent alii erumpere* [illegible] decem quatuor [illegible] [illegible] ares. Et [illegible] excid[illegible] quarto, [illegible] anno, quia alveoli crescunt & [illegible] *Niceph*[illegible] tempore molliores vacillant & cadunt. [illegible] dentem [illegible] & [illegible] ctum prebet, & gaudium [illegible] spem. Si non excid[illegible] novos alveo os producunt posteriores, super[illegible] dent [illegible] extra [illegible] Frequentius ad latera [illegible] numerum [illegible]

An post casum dentium in pueris novi nascantur extra alterum? Hi vero non nascuntur de novo extra [illegible] nascerentur de novo [illegible] & [illegible] *Eust*[illegible] [illegible] *chius & Rolanus* [illegible] qui excidunt, [illegible] dentes repet[illegible] Rarò autem [illegible] post annos multos & in senectute. Ut in [illegible] *Lhuanus* [illegible] nostra [illegible] 14 [illegible] dentes [illegible] & [illegible] sexagenario. *Helmont*[illegible] dentes [illegible] [illegible] annos [illegible] dentes [illegible] [illegible] [illegible] pueris [illegible] [illegible] atque eodē anno obiit. Non [illegible]

[illegible]

[illegible] habet exemplum [illegible], & nos meminimus.

Sed nunc de dentibus in adultis hominibus [illegible].

Substantia [illegible] nata [illegible], [illegible] tutta os concussi, in apro exerto, in [illegible] balæna *Narhual* Groenlandiæ nostræ, [illegible] dentem [illegible] [illegible] mandibulæ superioris parte, qui [illegible] pro Unicornu habetur, hactenusque in pretio apud Magnates fuit.

Magnitudine [illegible] ob oris angustiam [illegible] minores.

Figura variant. *In homine* [illegible] canini, & molares, ut dicetur in sequenti capite. [illegible] quod *Ponteanus*, [illegible] *ruminantibus* [illegible], [illegible] & *molares*. In *piscibus* [illegible] excepto genere [illegible] [illegible] *planas* [illegible] appellant, cum obtusi dentes [illegible].

Superficies lævis & æqualis.

Color candidus naturaliter, nisi impediant negligentia, [illegible] & morbus. *Helmontius* post octennium eam [illegible] [illegible] splendidum & [illegible] colorem [illegible] esse, & tum [illegible] adolescentem [illegible] pallescere [illegible] concludit, & juvenum dentes [illegible] post [illegible] demum [illegible] flavescere, & [illegible] pallatic. Sed non omnibus hæc differentia convenit.

Numerus non est idem omnibus. Nam ut mittamus quæ [illegible], videtur quod nascantur homines uno continuo dente in superiore maxilla, quod de *Pyrrho* referunt, & *Groenlandis* quodam ex patria Hafniam Regis navibus [illegible], item duplici vel triplici ordine dentium, qualem [illegible] nonnullis vidi, & qualem *Ludovicus XIII.* [illegible] Rex habuit, in quo [illegible] Mantichora prodidit [illegible] & de Lamia nota [illegible] habet inter [illegible] quos consulimus, figura Glossopetram [illegible], dum Glossopetras Melitenses *Columna* putavit esse dentes Lamiæ [illegible] de quo nos alibi. In [illegible] observavi duplicem seriem anteriorem quidem ex [illegible] vero ex molaribus [illegible] qui [illegible] occupant. Commune est hominis *unicum ordinem* dentium habere in qualibet maxilla, & [illegible] sunt *viginti octo* dentes, aliquando *triginta* in superiore [illegible], in inferiori quatuordecim, ut plurimum vero *triginta duos*, in qualibet maxilla sedecim.

Rar[illegible] vero [illegible] pretere[illegible]
[illegible] aliquando [illegible] quatuor, aliquando supra quinque, infra quatuor [illegible] que in dextra parte, quatuor in sinistra, & e contra.

Multi dentes longævitatem denotant.

Major autem numerus longævitatem [illegible] brev[illegible] vitæ, teste [illegible] *Hippocrate* & *Galeno* [illegible] cum raritas & paucitas dentium mala ut signum, & [illegible] sa Ut *signum* [illegible] materiæ inop[illegible], & [illegible] e & imbecillitatem fuisse. Ut *caussa*: quia pa[illegible] dentes [illegible] & [illegible] vitam [illegible] brevitatem [illegible] Sec intelligendum [illegible] brevitatem [illegible] non semper [illegible] & [illegible] ex parte, non semper [illegible] *[illegible]iger* [illegible] habuit de dentes [illegible] annos 7[illegible] paucos & [illegible]; ita quoque *Forestus* qui [illegible]

Connexio est per *γόμφωσιν*, nam infixi [illegible] in alveo[illegible] admodum clavi [illegible]. Max[illegible] robustos semel ob[illegible] *Hollerius*. *Vincula* [illegible] que robustos [illegible] principalis sive locel[illegible] & [illegible] *gingivæ*, [illegible]

Substantia exterior, est [illegible] & durior, non sentiens *interior* paulo mollior, sentiens, ob nervi & membranæ [illegible] habetque [illegible] amplitudinem in puerum & ad septimum annum *tenui squama*, [illegible] favorum apum circumseptam, mucoque repletam, in adultis [illegible] humore destitutam.

Dentium affectus & dolores unde?

S[illegible] igitur cav[illegible] tenuissima *membranula* ex qua [illegible] cerebro defluen[illegible] sit sentiente[illegible] humor[illegible] a cerebro [illegible] dentium. In hac incipien[illegible] ulcerationes, putredines [illegible] do officit, & [illegible] hac vermicu[illegible] admodum nonnullis [illegible] cruciantes. Membranæ [illegible] *vincula* ex[illegible], quibus præ[illegible] annectantur, observante *Eustachio*.

Vasa ad hanc cavitatem feruntur per foramina [illegible] dentium.

Venula pro revehendo sanguine post nutritionem & au[illegible] gmentationem continuam. Quæ in homine po[illegible] fuit [illegible] venæ tunicæ oculorum adnatæ [illegible] manifesti [illegible] conspiciuntur, & ex sanguinis aspersione [illegible] coniguntur.

Arteriola pro dando calore nativo, & sanguine pro nu[illegible] tritione & augmentatione. Unde ex inflammatione [illegible] [illegible] pul[illegible] sationes fit dentium, quem *Galenus* in se pro[illegible]

expe[illegible]

expertus est. Hinc multum [illegible] sanguinis ex dente perforato aliquando emanat, & nonnunquam [illegible] ad mortem usque.

Nervuli molles & teneres ex quinto pari nobis [illegible] feruntur, qui per radices in cavitatem intrant, [illegible] dispergantur, & parvulis propaginibus cum substantia quadam mucosa in dente medio reperta, miscentur.

Usus dentium.

Primus & primarius, est ad cibos comminuendos. Unde edentuli [illegible] tantum habent, quam ob causam delectos dentes videre malum *[illegible]*, & in somniis vulgo amici casum praesagire.

II. Ad vocem formandam: hinc infantes non loquuntur, antequam os dentibus plenum [illegible] praecipue ad literas [illegible] exprimendas [illegible] conferunt. Hinc edentuli literas quasdam pronunciare nequeunt v. g. T & R. [illegible] lingua [illegible] prioribus dentibus [illegible] debet. [illegible] sermo [illegible] laedit vocis explicationem, teste *Galeno* [illegible] sermo tardior, & minus clarus facilisque fiat. Hinc edentuli [illegible] dentes sibi procurant, aureo filo vinciendos. *Vocis [illegible].*

III. Ad ornatum. Edentuli enim deformes sunt.

IV. *Homerus* putat ad compescendam garrulitatem.

V. In brutis etiam ad pugnam ubi homo manibus utitur.

VI. Iidem brutis ad aetatem designandam. Equorum enim aetatem inspectum os prodit, ubi primi dentium *gnomonem* ferunt, quadam nota alba, qui foramen habet pisae capax quotannis minui [illegible], donec octennii dens laevis fiat, consumptumque foramen non appareat.

CAP. XIII.

DE DENTIBUS IN SPECIE.

Ratione triplicis figurae, situs & officii, *triplices* in homine *dentes* sunt: PRIMORES, CANINI, & MOLARES.

PRIMORES sive anteriores, ab officio in cibis incidendis, dicuntur *incisores & incisorii*, item γελασῖνοι, quia inter ridendum [illegible]nudantur.

In media parte anteriore reliquorum siti sunt, in qualibet maxilla *quatuor*, quibusdam duo, latiores tamen [illegible] acuti & lati instar gladiorum, caninis breviores, & simplicibus radicibus maxillae alveolis [illegible] ideo facilius excidunt, praesertim superiores. Succedit ut [illegible]

CANINI dicti, ob acutiem [illegible] & usum, nam quod [illegible] non possunt, hi confringunt. Vulgo *oculares* [illegible], non, ut quidam putat, quod oculorum ambitum

brum fere attingant, [illegible] cum vix alarum nasi infimam partem [illegible] deferatur post o nerv [illegible] & [illegible] [illegible] palpebrae [illegible] palpitant.

Cur paucos caninos homo habeat?

Sunt hi dentes in qualibet maxilla duo, utrinque unus, in basi lati & crassi, tenuiqua parte acuti. [illegible] caninos egebat homo, cum [illegible] manducatum, & [illegible] ibus utatur.

Infiguntur simplicibus radicibus, ut primores, sed altius infiguntur & [illegible] nam radices eorum superant [illegible] omnes proceritate, & superioribus quidem longiores [illegible] ces sunt. Dentium, praecipue inferiorum & caninorum [illegible] radices nonnunquam *[illegible]* latus [illegible] inflexae notat *Spigelius*, unde difficile evolvuntur [illegible] ne metu alveolorum.

MOLARES dicuntur reliqui & postremi, tum à figura molarum, tum ab usu, quia instar molarum conterunt cibum praecisum, asperi & magni sunt duri & lati. *Germanis* Backenzähne [illegible] Baccarum dentes vocantur.

Plures sunt homini quam incisores; è contra in brutis ferocioribus, quae ad pugnam etiam utuntur dentibus acutis.

Communiter sunt *viginti*, *utrinque* in qualibet maxilla quinque, quamvis numerus variet, ut supra dictum.

Ex his duo postremi dicuntur *dentes sapientiae*, item sensus & intellectus, quia tum primum erumpunt, (subinde cum maximis cruciatibus, aliquando in dolentes) quando sapere incipiunt homines, circa annum vigesimum octavum vel trigesimum, aliquando in summa senectâ, vidit *Aristoteles* 80. aetatis anno nonnullis apparuisse, & *Vallesius* 83. aetatis anno demum provenisse: nonnunquam vix prominent, aliquando vix creantur; Latini *genuinos* vocant.

Cur superiores molares plures habeant radices?

Hi dentes pluribus *radicibus* nituntur, aut binis & ternis, ut maxillares inferiores, aut ternis & quaternis, ut superiores, quae plures habent radices.

1. Quia alias penduli sunt, secus, quam inferiores, quae etiam gravitate sua incumbunt.

2. Quia substantia superioris maxillae est rarior & mollior.

Transitus.

Atque ita primi pars sceleti, videlicet caput, absoluta est; sequitur secunda pars vel TRUNCUS.

CAP.

Cap. XIV.

De Spina Ejusque Vertebris in Genere.

In Trunco, vel altera parte sceleti, examinanda veniunt [illegible] vertebræ spinæ, præterea *ossa Ilium, costæ, sternum, claviculæ & scapulæ.*

Spina Græcis [illegible], vel [illegible], unde Rachitis morbus [illegible], quod a primis cervicis vertebris [illegible] ad [illegible], quia posterior ejus pars est [illegible] seu acuta. *Spina quid?*

[illegible] spinæ dicuntur [illegible], Latinis *vertebræ*, quia per eas corpus varie vertitur.

[illegible] hæc ossa [illegible] vertebris *colli* [illegible], *dorsi* duodecim, *lumborum* quinque, & *ossis sacri* quinque vel sex; quibus additur *os coccygis*.

Præterea [illegible] omnes vertebræ, pro [illegible] spinalis [illegible] *Vertebra sacra* dicitur [illegible] continet, [illegible] non [illegible] ob motum qui antrorsum [illegible] & retro [illegible] tota spinam in [illegible] conglobatas [illegible] Paréus [illegible] Et [illegible] ligamentis [illegible] Pa- [illegible] figura demonstrat. [illegible] habet [illegible] vertebrarum dorsi & lumborum, [illegible] *Fa-* [illegible] Matheo. Spinam [illegible] Salmuth [illegible] Quod [illegible] *Riolanus*, [illegible] caput a cervice, [illegible] vertebræ articulatione cum capite [illegible]. A [illegible] sus- [illegible] quo nos [illegible]

Figuratur [illegible] *modo* [illegible] vertebræ [illegible] & lumborum, pro [illegible] Aortæ & Cavæ [illegible], *modo exterius* [illegible] dorsi & [illegible] locus amplius sit pro [illegible] vesica, ano, utero.

Et hæ quidem partes magis extrorsum [illegible] in fœminis in gratiam fœtus.

Figura cujuslibet vertebræ superius & inferius plana atque lata est, ne facile fiat luxatio; exterius rotunda, convexa & prominens, sed in cervice latior & æquabilior, ob incumbentes

bentes tracheam atque gulam. Exterius seu posterius variis prominentiis donatæ sunt vertebræ.

Nam *processus* in quaslibet vertebra sunt triplices.

I. *Obliqui quatuor*: duo superiore parte ascendentes, duo inferiore descendentes.

II. *Transversi duo*, pro musculorum ortu & insertione. Illi vero in cervicis vertebris sunt lati & perforati, in dorso crassi, solidi & rotundi, exceptis undecima & duodecima.

III. *Acutus unus* in postica parte, quæ propriè *spina* dicitur & in *prima* vertebra deest.

Appendices quamplures habent, infra & supra duas, ad ipsarum corpus totidem ad processus transversos, & unam ad *spinæ* extremitatem.

Foramen est amplissimum, in qualibet vertebra per medium, pro medulla reservanda: deinde alia sunt foramina lateralia, quæ minora, pro nervorum egressu, quos tantum per commissuras spinarum exire affirmabat *L. Leonicenus*.

Vertebræ cujuslibet *substantia* est interna parte crassior & fungosior, cui adnascuntur *epiphyses* & *cartilagines*. Nam vertebrarum extrema, prima cervicis excepta, appendicibus donantur, quas *cartilagines*, ut facilius moveantur, intercedunt crassæ & molles, ita ut supra ossa quæ habent cartilagines, quæ in osse sacro duriores & sicciores sunt, quia hoc os immobile.

Connectuntur vertebræ per articulationem à parte posteriore, videlicet per *γιγγλυμον*, at parte anteriore per *συμφυσιν*, & quidem per *vincula* validissima.

Duplicia vero *ligamenta* sunt vertebrarum.

Alia superius & inferius connectunt vertebras, suntque *figura* lunaris, crassa, valida, fibrosa & mucosa.

Alia oriuntur ab epiphysibus tam transversis quam acutis, quæ membranea sunt, quibus processus firmius alligantur.

CAP. XV.

DE SPINÆ VERTEBRIS IN SPECIE.

CErvicis seu COLLI VERTEBRÆ communiter *septem* sunt, in longo collo octo, ad pabulum prono, quia angustior est thorax, imus defectu. In brutis plerumque sex tantum, Hyenæ vero *Busbequio* nullæ, quem *P. Castelli* sceleton

[illegible], & [illegible] in Cervicis vertebris [illegible] one [illegible] deprehenduntur, quæ præter [illegible] peculiaria quædam habent.

I. Breviores utrinque habent processus transversos.

II. Longos perforatos, pro venis & arteriis cervicalibus, in cerebrum ascendentibus.

III. Spinam bifidam.

Duæ primæ per ligamenta junguntur occipiti, ut firmissime capiti adhæreant, & præter reliquas quædam peculiare quid habent.

I. *Atlas* dicitur, quia caput sustentare videtur, quod sibi [illegible] nominatur Epistropheus, quod secundæ partes [illegible], *spina caret*, ne parti [illegible] capitis [illegible] vertebra [illegible], in extensione capitis lædantur.

Cur prima vertebra spina careat?

Motus capitis, qui in orbem ducitur, fit supra primam vertebram ex *Galeno*, [illegible] annuendo & renuendo, per secundam.

Substantiam habet tenuiorem sed densiorem. Excipit, non excipitur, unde sinum habet *cartilagine* obductum, ad excipiendum sequentis vertebræ dentem.

II. *Epistropheus* dicitur a vertendo, quia ex medio ejus corpore assurgit appendix (aliis processus) rotunda & oblonga instar dentis canini, circa quam caput cum prima vertebra vertitur.

Hinc dicitur appendix illa dens, immo tota vertebra *Hippocrati* ita dicitur, ex cujus luxatione sæpe vult fieri anginam insanabilem.

Angina insanabilis, ex dentis luxatione.

Dentis *superficies* aliquo modo aspera est, quia inde prodit ligamentum, quo occipiti alligatur, cui etiam fortius [illegible] quod ligamentum, nervi figuram referens, & [illegible] contextum, circumducitur, ne comprimatur medulla.

Cum prima vero jungitur hæc secunda vertebra *ligamento laxo* in orbem circumtecto.

[illegible] est animadversio, duas priores facilius luxari, quia sunt mobiliores.

III. Dicitur ἄξων, reliquæ nomine carent.

Ultima cum thoracis vertebris magis convenit, & processum posteriorem non semper habet bifidum.

DORSI VERTEBRÆ sunt plerumque *duodecim*; quibus totidem costæ a quovis latere articulantur. Raro una deest, rarius una superest.

Crassiores sunt quam cervicis, minus solidæ, & pro

vaso

vasorum nervorumque transitu foraminibus ex [illegible]

I. Ab [illegible] ἀσπὶς, quod pectus [illegible], vel ἀσπὶς quod galeæ similetur.

II. Μασχαλιστήρ, Axillaris.

Reliquæ [illegible] costales.

Undecima ἀρρεπὴς, quod ejus spina recta sit.

Duodecima διαζωστὴρ præcingens à [illegible] diaphragmati. De hac duo notanda ex Vesalio [illegible] ma vertebræ processus more descendentium [illegible] in vertebris lumbaribus, in suis ascendentium [illegible] prima lumborum vertebræ [illegible]. 2. Ut de [illegible] d [illegible] motibus, hanc vertebram [illegible] tam quiescere.

LUMBORUM quinque raro sex, crassissimæ sunt & [illegible], foraminibus crebris perviæ, quarum motus [illegible] quam dorsi, ut facile [illegible] ad terram [illegible] quædam [illegible].

Transversi processus longiores sunt, [illegible], ex cepcis prima & quinta; spinæ vero [illegible] latiores, quibus musculi & ligamenta dorsi nectuntur.

1. Dicitur [illegible] à [illegible].

Ultima, [illegible] ἀσφαλτης, firmans vel fulciens.

Reliquæ cum [illegible] conveniunt.

Os sacrũ cur ita dictum?

Os SACRUM sequitur, ita dictum quod sit omnium in spina maximum. Antiquitus magnum sacrum vocarunt [illegible] quod partibus obscœnis & à natura [illegible] subjaceat: sacrum enim etiam exsecrabile erat, ut ex Petronio docet Servius, ad illud Virgilij, Auri sacra fames.

Est latum & immobile, [illegible] con [illegible].

Figura est fere triangularis. Anterius cavum est, læve & æquale; posterius gibbum & asperum.

Os sacrũ propriè non habet vertebras.

Vertebræ ejus ita dictæ, non quod [illegible] sed similitudine, sunt quinque [illegible] aliquando sex, in pueris [illegible] facile separabiles, in adultis ita conglutinatæ, ut unum os esse videantur, aliquando septem observarunt Salomon Albertus & Pavius.

Galenus os sacrum ex tribus constitui ossibus, quia reliqua ossis [illegible] sub osse coccygis comprehendit, & epiphysin vocat, quod alij os Coccygis.

Foramina, non ut in prioribus, lateralia sunt, sed antica [illegible] quæ majora, ob nervos ibi majores & plura; quia [illegible] [illegible] est os [illegible].

Tribus superioribus sinus exsculpti sunt, ubi ossa ilij adhærent.

Os

Os Coccygis, [illegible] ...
... [illegible] ... ossibus & [illegible] ... cartilaginibus connexis. [illegible] ... & cartila-[illegible] ... adfuisse puero in patria illo Danico; cui [illegible] excrevit, & in cubitali cauda Ovium Veneti.

Connexio est laxa, & in fœminis laxior, ut retrorsum cedere queant.

1. In excretione majorum excrementorum.

2. [illegible] tempore ut amplior [illegible]. Unde hoc os [illegible] ... parte cedere [illegible] ... reponatur [illegible] ... [illegible] ... & [illegible].

[illegible] ... [illegible] ... ossis [illegible] ... [illegible] ... ex-torsum, ob colliditur, & ut cavitas ma[illegible].

Læso hoc vel fracto ingentes dolores ex[illegible], ut lo-[illegible] historiæ apud *[illegible]* & *[illegible]* [illegible] ... [illegible] *Hofmannus* [illegible] ..., sicut mammarum par [illegible] ... [illegible] omnes partes ad [illegible] comparatas confitans est Galeni doctrina.

Os cocc. regu lam. pari. pon. tesle.

CAP. XVI.

DE OSSE INNOMINATO.

Os Innominatum aliis Os Coxæ vel Ilium, ad [illegible] ... est [illegible] tribus ossibus, *Ilio, Pube* & *Ischio* per [illegible] ... ad septimum annum, ut triplici linea distinctum appareat, sed in adultis unum.

Os Ilion [illegible] ... connectat, est prima pars, quæ [illegible] ... convexa per [illegible] ... quamvis & [illegible] intercedat.

Ambitur ejus [illegible] ... & inæ-[illegible] ... *spina ossis* [illegible] ... pars interior cava & laca [illegible] ... [illegible] ... *dorsum* [illegible].

Amplius est hoc os in [illegible] ... & spinæ ejus magis in [illegible] ... eductæ, ut gravidæ uterus melius sustineat. [illegible] ... parte non [illegible] prægnantes conqueruntur, ac si de-[illegible] ab osse sacro & vicinis, quibus adhæret.

Os Ilium cur in mulieri-bus am-plius?

Os Pubis vel *pectinis* est secunda pars, media & anterior, quod [illegible].

Ossa pu-bis.

Luxan- tur in par- tu. quod os cum alterius lateris osse per *συγχόνδρωσιν* ne[illegible] [illegible] super mediam cartilaginem [illegible] brevi [illegible] [illegible] plurimum [illegible] & laxa [illegible], ut dehiscere & laxari, non [illegible] [illegible] [illegible] [illegible] impetum [illegible] [illegible] [illegible] [illegible] [illegible] sive [illegible] gravidarum, sive loci ang[illegible] pubis divelluntur, ut præter [illegible] veterum [illegible] variant in dissectis puerperis *Paræus, Riolanus, Bauhinus, Courvæus &c.* [illegible] in *Comm. Anat. Bartholin.* *Paris* , [illegible] fœtus [illegible] & [illegible] [illegible] [illegible], accedente coccygis retrocessione, nec [illegible] *Mercurialis*.

An [illegible] *moveantur* [illegible] quæstio [illegible] *Galen* [illegible] moveri [illegible] motu musculo [illegible] *bus* quoque per [illegible] moveri [illegible], [illegible] pedibus [illegible] in lecto convolvitur corpus. *Riolanus* [illegible] bis non [illegible] sed [illegible] moveri eorum dem musculorum ope, probat a compressione ventris [illegible] moveantur hæ partes; ab [illegible] truncatis pedibus, de[illegible] falsat ovo.

Sed me adhuc [illegible] quædam retardant, quod

1. [illegible] ipse *Galen.* non moveri sua [illegible] pubis os, adeo & reliqua, sed flexu spinæ.

2. Ossa ita invicem juncta per symphysin nullum motum habere possunt, [illegible] fatente *Riolano*.

3. M[illegible] [illegible] adigaavimus [illegible]

4. Motus [illegible] ossium apparentes, non sunt proprii [illegible] rum, sed vertebrarum, vel [illegible] [illegible] [illegible] Nam [illegible] adductis [illegible] quilibet in se experiri pot[illegible] moveri & crura & dorsum, præterea manu exploratur moveri tum musculos cruris *Gluteos*, [illegible] [illegible] [illegible].

5. Immobilia esse debent, [illegible] fundamento super[illegible] [illegible], hac parte nobis [illegible] requies.

In modo fœtus facile hæc ossa separantur cultro [illegible] teneris, secus quam in [illegible]. De [illegible] licet per cartilaginem jung[illegible] ossa pubis, tamen duo etiam

Ligamenta habent: 1. C[illegible] ea ambiens. 2. Mem- *Magna foramina in ossibus pubis cur?* branam, quod foramen occupat.

Foramina [illegible] & [illegible] ergo, maximis *foraminibus* [illegible] [illegible], in [illegible] ampliora & capaciora, ob uterum & fœtum [illegible] processus interiores & inferiores magis ex[illegible] [illegible] protuberant.

Cum

Cum osse sacro constituunt cavitatem quæ *pelvis* dici-tur, in qua sunt vesica, uterus, & pars intestini recti. *Ossa pube ampliora in mulieribus.*

ISCHION vel *coxendix* est tertia pars quæ inferior, & [illegible] est [illegible] & [illegible] cavitas acetabulum [illegible] & [illegible] pro femoris capite [illegible] [illegible] quod [illegible] sive ab humore interno sive casu [illegible] [illegible] & [illegible]. Hujus cavitatis processus cartilagineus dicitur supercilium.

[illegible] magis distant, quæ ideo pelvim habent ampliorem.

Commune [illegible] [illegible] *ligamento*, ex [illegible] *foramen* dicitur [illegible] coxendicis [illegible] *foramen* [illegible] appellatur, ut intestinum rectum cum suis musculis fulciatur.

CAP. XVII.

DE COSTIS.

Quemadmodum ad latera ossis sacri os est innominatum, ita ad latera vertebrarum dorsi sunt COSTÆ. Itaque in sceleto ascendendo, hoc modo sunt explicandæ, tanquam partes laterales thoracis.

Situs costarum est in lateribus, & Græcis dicuntur πλευραὶ, eo quod latera efforment.

Figura arcuata [illegible] segmentum [illegible] ut thorax capacior [illegible] dextro [illegible] latere [illegible] *fulcimentum*, & [illegible] lateris costam [illegible] æquantem, iterato [illegible] [illegible].

In exortu sunt angustiores & rotundiores, quo vero pectus magis accedunt, tanto sunt latiores. [illegible] crassiores sunt. Et superiores costæ magis curvæ atque [illegible] sunt, [illegible] longiores & [illegible], inferiores rursum breviores.

Superficies externa aspera est, qua vertebris alligantur, [illegible] ligamenta [illegible] [illegible] vero duobus donatur tuberculis: 1. Articulatur sinui vertebræ. 2. Jungitur vertebræ processui transverso. Sed inferiores quæ [illegible] simplici junguntur tuberculo.

Interna lævis est ob πλευρὰν.

In infima parte sunt *sinus* secundum longitudinem pro vena, arteria, & nervo, qui magis apparent, quo vertebris viciniores sunt.

FIGURARUM EXPLICATIO.

Vertebras aliquot, os sacrum, os innominatum, costas, scapulamque peculiariter ostendunt, eorumque partes designant.

F I G. I.

AAA. *Anterior facies primæ Colli vertebræ, Atlas dictæ.*

B. *Foramen per quod spinalis medulla descendit.*

C,C. *Processus trāsversi seu laterales.*

DD. *Foramina lateralia per quæ arteriæ ad cerebrum ascendunt.*

EE. *Sinus duo occiput suscipientes.*

F I G. II.

AA. *Posterior facies vertebræ Colli secundæ.*

B. *Appendix seu processus ejus instar Dentis.*

C. *Spina ejus bifida.*

F I G. III.

AA. *Posterior facies vertebræ dorsi.*

B. *Superior ejus superficies, minus foveis & foraminibus exiguis plena.*

CC. *Processus transversales.*

D. *Posterior processus seu spina.*

F I G. IV.

AA. *Anterior facies vertebræ Lumborum.*

B. *Inferior ejus superficies, cartilagine plurima obducta.*

C. *Foramen pro transitu medullæ.*

DD. *Processus transversi, seu laterales.*

E. *Processus posterior, seu spina.*

FF. *Processus ejus obliqui.*

F I G. V.

AAAA. *Posterior ossis sacri facies [illegible] gibbositatibus & asperitatibus conspicua.*

B. *Foramen pro descensu spinalis medullæ.*

CC. *Processus obliqui.*

dd. *Processus posteriores.*

eeee. *Foramina ejus pro exitu nervorum.*

ff. *Processus ejus posterior bifidus.*

F I G. VI.

Os coccygis exhibet quatuor ossiculis seu cartilaginibus constans.

F I G. VII.

Os innominatum [illegible]

AA. *Os ilium, una ossis Innominati pars.*

bbb. *Spina ejus.*

C. *Dorsum ipsius.*

DDD. *Os pubis, altera ossis Innominati pars.*

E. *Foramen amplum.*

FFF. *Os Ischium seu Coxendicis, tertia Innominati pars.*

GG. *Cavitas ampla seu Acetabulum.*

hh. *Supercilium ejus.*

I. *Tuberculum.*

K. *Appendix ossis Ischii.*

F I G. VIII.

AAA. *Vertebræ dorsi.*

BBB. *Costæ.*

CCCC. *Sinus infimæ costarum parti insculpti.*

DD. *Duo costarum Tubercula quibus medullitibus articulantur.*

E. *Sinus vertebræ.*

F. *Vertebræ processus transversus.*

G. *Infima est costa, simplici tuberculo donata.*

F I G. IX.

A. *Clavicula.*

b. *Capitulum quo sterno committitur.*

c. *Alterum ejus extremum quo scapulæ jungitur.* D. *Scapula.*

E. *Processus ejus primus, ἀκρώμιον dictus.*

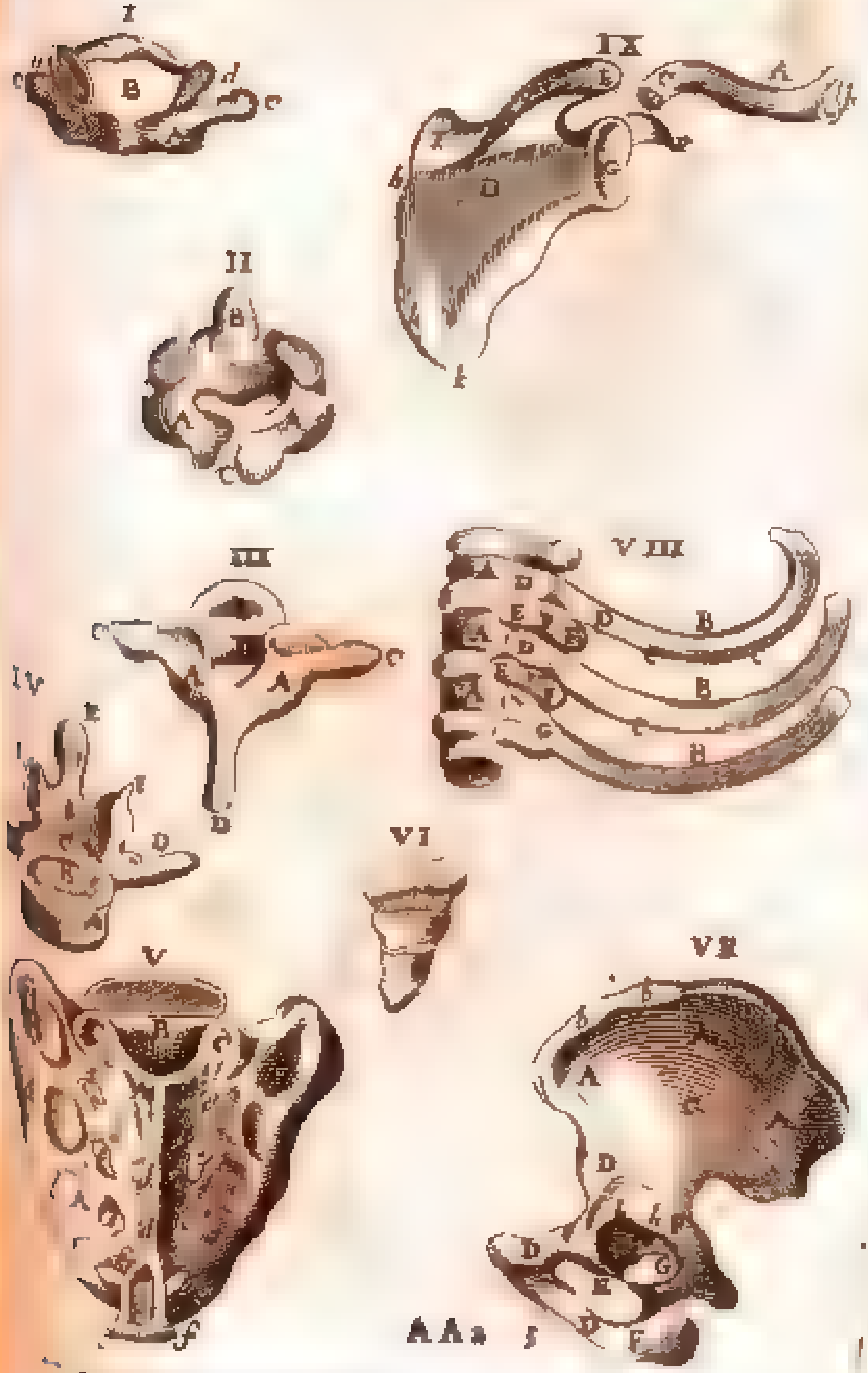
F. *Processus minor inferior, Ancyroïdes vocatus.*

G. *Processus brevissimus, a [illegible] cervix appellatus.*

hh. *Basis scapulæ.*

K. *Angulus inferior.*

L. *Superior angulus.*


I
II
III
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VII
VIII
IX

Admonitio pro Chirurgis.

Ubi notant Chirurgi in thoracis apertione, quæ fit inter quintam & sextam costam, secundum *Æginetam* numerando a superiori, vel inter 3. & 4. costam, juxta *Hippocratem* numerando à costis inferioris, faciendam sectionem a [illegible] mo ad imum, non e contra ne hæc vasa lædantur. De [illegible] bus videndus in Armamentario *Jo. Scultetus*, qui de [illegible] na & Hippocratica sectione [illegible] egregie judicat.

Connexionem habent costæ [illegible] cum vertebris [illegible] alteram cum sterni cartilaginibus.

Cartilagines costarum.

Substantia est partim ossea, partim cartilaginea.

1. Ut [illegible] contrahatur & dilatetur thorax.

2. Ut difficilius contingat fractura.

Ossea est parte prope dorsum, & parte laterali.

Cartilaginea prope *sternum* [illegible] continetur.

Nam omnes costæ parte anteriori habent cartilagines instar *unguium*, quæ [illegible] nibus successu temporis ossescunt, ut [illegible] lem incumbentem, firmius sustineant.

Cartilagines superiorum duriores sunt, quia cum ossibus sterni copulantur, inferiorum molliores, quia cum cartilaginibus committuntur. De [illegible] parte posteriore quæ [illegible] cartilaginem habet [illegible].

Costa cur plures?

Numero plures [illegible] thorax. Pausanias in Atticis [illegible] Protophanem Magnesium costas continuas [illegible] habuisse, ab humeris ad costas nothas natas seu connexas habuisse [illegible] usque. *Nicolaus Fontanus* tres unicas inseparabiles vidit. Ut plurimum utrinque sunt duodecim, tam in viris, quam in mulieribus. Raro tredecim quod *Bauhinus* in [illegible] vidit & *Marchettus*, raro [illegible] undecim utrinque, quod Patavii vidit *Columbus* & *Rolfincius*. Sæpius vero unica superest.

Adam quot costas habuerit?

Verisimile ergo est in Adamo uno latere fuisse tredecim costas, ex quibus unam cum [illegible] carne adnata exemit Jehova, & in Evam convertit, [illegible] 12. costas [illegible] tero 11. quod [illegible] cum *Manass ben Israel* [illegible] *latus* Adami, pro costa, [illegible] quod [illegible] Adamo creatam, & quasi [illegible] Eva, habuisse [illegible] Adamus, a tergo [illegible].

Vera costa quot?

Dividuntur costæ, ut aliæ sint *veræ*, germanæ & legitimæ, aliæ *spuriæ*, adulterinæ & illegitimæ.

Veræ sunt septem superiores, ita dictæ, quia magis [illegible] lum perficiunt, & *sterno* attinguntur, cum [illegible] perfectam habent articulationem, & cum vertebris duplici tuberculo ut supra dictum.

Duæ

Duæ [illegible] pectores [illegible] pectorix.
Duæ ſequentes [illegible] ſolidæ.
Tres reliquæ [illegible] pectorales.

[illegible] ſunt [illegible] [illegible]
[illegible] coſtæ.
[illegible] cum eo perfectam ha-
[illegible] quaſi
[illegible] cartilagines longiores, quam verarum ſiunt [illegible]
[illegible] quaſi [illegible] con[illegible]
[illegible] adhæreret, adeoque
[illegible] amplior [illegible] & [illegible]
[illegible] tamen aliquando &
[illegible] aliquando [illegible]
[illegible] extra diaphrag-
[illegible] muſcul, ipſam [illegible]
[illegible] conſcriptionem habet.

Uſus coſtarum eſt

I. [illegible] verum, ad [illegible] pectoris, viſce-
rumque inibi contentorum, ut cordis &c.

II. Ad ſuſtentationem muſculorum reſpirationis, &
[illegible] abdominis.

III. [illegible], ut partibus naturalibus in abdomine
contentis [illegible].

Cap. XVIII.

DE OSSE PECTORIS SEU STERNO.

OS PECTORIS quod in anteriore thoracis parte coſtis [illegible] incumbit & [illegible], unde *ſternum* [illegible] Hip- *Στῆθος quid ſignificet?*
pocrati *στῆθος* dicitur, quæ vox tamen aliquando ſignificat

1. Totum anteriorem thoracem.
2. Ejus dolorem.
3. Os pectoris, ut hoc loco.
4. Orificium ventriculi.
5. Cartilaginem enſiformem.

[illegible] hoc os *glad* [illegible] & *en*[illegible]*forme*, ob formam gla- *Figura ſterni.*
[illegible] vel [illegible] pugionis aut [illegible] eſt enim *convexum*,
longum & *latum*.

Subſtantia eſt partim oſſea, ſed fungoſa & rubens, par-
tim cartilaginea.

Ex oſſibus conſtat, non uno, ut fere in ſenibus conſpici-
tur, ſed *pluribus*, ut apparet remotis ejus membranis. In

 [illegible]

infantibus totum cartilagineum est, praeter os [illegible] [illegible] Recentiores [illegible] [illegible] & mediae partes quam exteriae, [illegible] reperiuntur in [illegible] pueri, quae post [illegible] & post [illegible] adoleseentia [illegible] quatuor, nunc plura sint ossa. Sed [illegible] & [illegible] manent in adultis, ut in pueris; media vero [illegible] bus, varius ibi ossium fit numerus.

Distinguuntur haec ossa [illegible] diversis [illegible] per *synchondrosin*; nam intercedunt cartilagines ligamentorum instar.

PRIMUM Os & supremum amplius est [illegible] num & inaequale, superius lunatum, referens [illegible] nodum ad capulum. Alij vocant *jugulum*, alij *superiorem furculam*.

Sinum habet utrinque in superiore parte, pro clavicularum capitibus excipiendis, quam copulationem cartilagines intercedunt.

Alium vero utrinque in medio exteriorum, ut tracheae descensui cedat.

Secundum angustius est & sinus majores [illegible] que pro costarum cartilaginibus excipiendis.

Cartilago ensiformis.

Inferiori [illegible] [illegible] cartilago [illegible] dicitur *xiphoides*, *ensiformis*, [illegible] & *mucronata* [illegible] [illegible] *Arabibus* [illegible] [illegible], *[illegible]* [illegible] vulgo *scutiformis*.

Est [illegible] haec cartilago & oblonga, in fine [illegible] [illegible] [illegible] [illegible] quibusdam *furcata* [illegible] simplex.

At quando *perforata* est, [illegible] [illegible] aut [illegible] dilatationem, [illegible] venas & arterias [illegible] [illegible] quando [illegible] [illegible] longius [illegible] [illegible] ventriculi [illegible] & [illegible] [illegible] quo [illegible] [illegible] difficultate laboraverat.

Haec [illegible] [illegible] & curvatur [illegible] partes [illegible] & [illegible] infantes [illegible] percunt. De quibus videndi *Condrochius* & *Sepinus* [illegible] [illegible], *Veslingius* [illegible] [illegible] [illegible] [illegible] dicto cordis [illegible] Monet *Albertus* [illegible] [illegible] fictum pars [illegible], sed sensim [illegible] [illegible] propter spongiositatem

[illegible]ositatem ad interiores partes [illegible] pervadat, cautiusque [illegible] pateretur.

Duos [illegible] *musculos* a latere positos observavit *Fal[illegible]*, [illegible] [illegible] levitet deorsum moveant & [illegible].

Cavitas hoc in loco extrinsecus apparens, dicitur *fovea* [illegible] *cordis*.

Usus [illegible], 1. ut ab externis injuriis instar clypei cor defendat.

2. Ut mediastinum sustineat.

3. Costas inter se colliget.

Cap. XIX.

DE CLAVICULIS ET SCAPULIS.

Claviculæ [illegible], quod thoratem claudant, & instar clavis [illegible] scapulam cum sterno, vel quod claves ædium [illegible] referant, [illegible] in antiquis ædibus a *Spigelio* visas. *Celsus jugula* vocat a jungendo, alij *ligulas*, *ac furcale*, *furcalem superiorem*.

Sita sunt transversim sub imo collo, in pectoris summo, utrinque una.

Figura est oblonga S Latin, hoc est, ex duobus semicirculis adverso modo conjunctis, ad [illegible] tota convexa, [illegible] leviter cava, ne vasa ibi [illegible] comprimantur. [illegible] [illegible] magis incurvantur, ut [illegible] impediatur brachij motus [illegible] muneribus [illegible], pulchritudinis ergo, cum [illegible] [illegible] loco non ita conspicuæ sint in fœminis atque in [illegible] unde & minus apti sunt ad projiciendos lapides.

Fovea circa claviculas.

Substantia crassa est, sed fistulosa & fungosa, unde sæpe frangitur, & facile coalescit.

Superficies aspera & inæqualis.

Committuntur cum scapulæ processu superiore per cartilaginem, quæ tamen ei connascitur, ut cedat nonnihil [illegible] [illegible] scapulæ atque brachio, sed tantum ligamentis [illegible] [illegible] articulum amplexantibus, capite lato & oblongiuscu[illegible] & [illegible] alio capitulo jungitur, ut supra dictum.

Usus est [illegible] ad varios motus brachij, quod, quia hoc osse [illegible] palo stabilitur, ideo facilius sursum & retrorsum [illegible]. Hinc bruta claviculis carent, exceptis simia [illegible] [illegible], & echino.

Scapula Os, Græcis ὠμοπλάτη quod humeri latitudinem [illegible], barbaris *spatula*, est os latum & tenue, præ-

Scapula quid?

fectum

ferè autem in medio sita in processibus costarum, [illegible]
incumbens superioribus costis parte [illegible]

Figura ferè est triangularis.

Eius partes. *Partes* ejus variæ sunt. Pars interna cava [illegible]
na, quæ & angulum & costam habet superiorem & [illegible]
riorem [illegible], quæ *basis* dicitur, item *dorsum* [illegible]
Est etiam *spina* quædam producta, supra & infra [illegible]
respiciens, quæ dicuntur *interscapulia*.

Processus habet tres:

I. Est modo dictæ spinæ extremum, & dicitur ***ἀκρώμιον humeri mucro***, summus humerus; quo cum clavicula conjungitur.

II. Minor, inferior & acutus, à forma rostri corvini effigie dicitur [illegible], item [illegible], à figura tertiæ partis anchoræ, item [illegible]. Et hoc processu humeri os in suo sede continetur.

III. Brevissimus, dicitur ***αὐχὴν***, cervix, in cujus extremo est cavitas superficialis, in quam inseritur caput humeri, quod ne facile excidat, augetur sinus profunditas crassa cartilagine labia cingente. Et per hunc processum & cavitatem jungitur scapula cum brachio.

Epiphyses habet quinque, tres ad latus internum, & ad basin juxta spinæ dictum. Duo *ligamenta* procreant quæ jungunt caput ejus humero, & ***ἀκρώμιον*** claviculæ. Undique cingunt vero articulum humeri lata & brachij communia *ligamenta* tenuia & membranosa.

Usus scapulæ.

1. Ad costarum robur.

2. Ad humeri & claviculæ articulationem, & securitatem. Unde raro, nisi maxima violentia, luxatur humerus versus superiora aut ad latus, plerumque deorsum, ubi scapula nulla obstat. Quam luxationem vocat *Hippocrates* [illegible]

3. Ad musculorum implantationem.

4. Ad apprehensionem primario *Hofmanno*, cui inservit partim inarticulatione, partim explantatione quorundam musculorum brachij.

5. Secundario cor tegere.

CAP. XX.

DE OSSIBUS TOTIUS MANUS.

OSSA MANUS dividuntur in *brachium, cubitum* & *extremam manum.*

BRACHII OS, *Criso* humerus, unicum est, magnum & validum, longum, teres, & inaequale. *Parte superiore appendicem* habet vel *caput* magnum, rotundum, *cartilagine* [illegible], donatum, quod cum scapula articulatur per *Arthrodiam.*

Inferior pars cubito & radio articulatur, ubi duo *processus* sunt, *externus* minor [illegible], & *internus*, duos [illegible] ut forma habeat trochleae vel rotulae, ad quam volvantur sinuositates cubiti, [illegible] in acutissimum angulum flecti potest, at ultra rectam lineam non extendi.

CUBITI OSSA sunt *duo*, humero breviora, & appendices utrinque habentia, sibi mutuo incumbentia, atque ligamento membraneo invicem commissa.

[illegible] inferius majus & longius dicitur *ulna, cubitus,* B[illegible] *Focile majus,* alterum superius & minus, dicitur *radius* vel *Focile minus.*

ULNA à mensurae similitudine dicta *parte superiore* cum humero per *ginglymum articulatur*, ideo habet ibidem processus & sinus.

Processus sunt duo oblongi, & quasi triangulares, asperi, ut ligamenta articulorum valide ambiant. Dicuntur *κορῶναι,* id est, rostra seu glandes. *Anterior* & superior minor humeri sinum subit; *posterior* crassior & amplior in obtusum angulum definit, & humeri sinum posteriorem subit. Vocat *Galenus ὀλέκρανον, Hippocrates ἀγκῶνα,* Latini gibberum.

In medio horum est magnus *sinus* seu cavitas, instar semicirculi, unde dicitur *sigmoides*. Habet adhuc alium sinum levem externum lateralem, pro radii capite.

Parte inferiore articulatur cum carpo, tum per mediam *cartilaginem*, tum per processum acutum, ideoque *styloidem* dictum, unde *ligamentum* oritur, cubitum cum carpi articulo firmans.

Alto

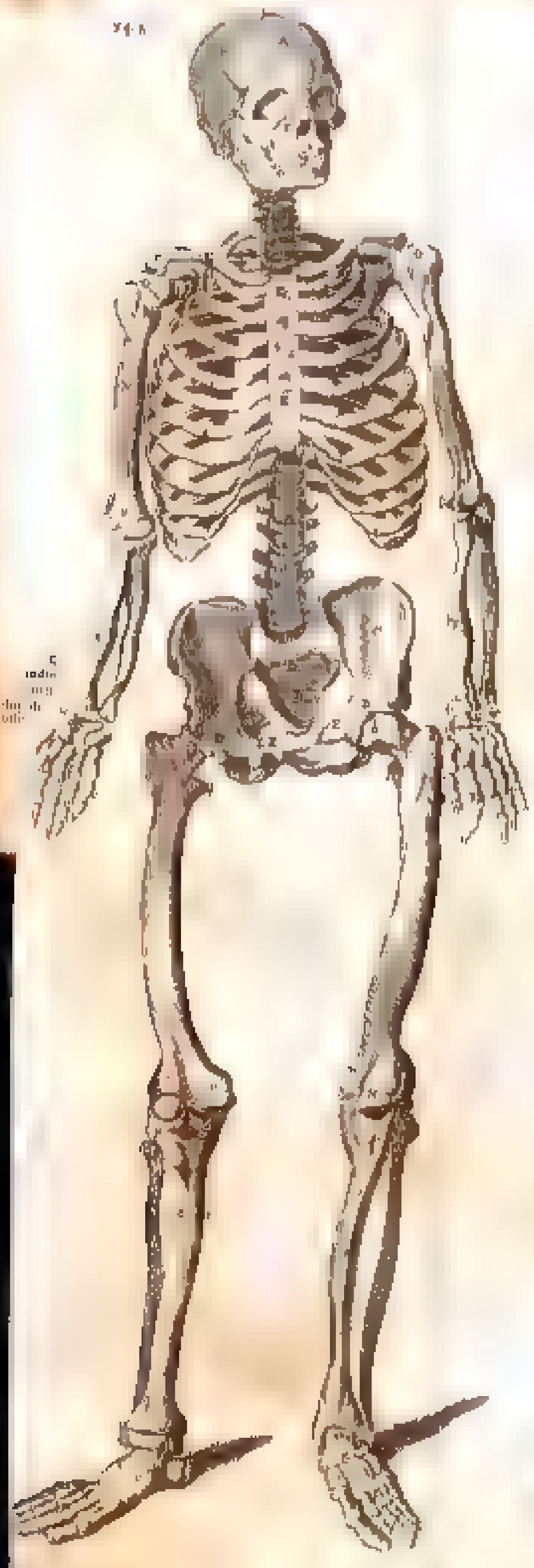
FIGURÆ EXPLICATIO.

Sceleton exhibet corporis humani ab anteriore parte, ut ossium omnium contextus appareat.

A. *Os frontis.*
b b. *Sutura coronalis.*
C. *Os temporum.*
d. *Processus mammillaris.*
E. *Os jugale.*
F. *Maxilla superior.*
G. *Maxilla inferior.*
h h i. *Vertebræ colli, seu Cervicis.*
i i i i i. *Costa.*
K K. *Os sternum.*
L L. *Clavicula.*
M M. *Utriusque scapulæ internum latus.*
N N. *Os brachii seu humeri.*
O O. *Caput ipsius humeri inarticulatum.*
P P. *Inferior ejus pars cubito & radio articulata, ubi*
q q. *Tuberculum internum.*
r r. *Tuberculum externum designat.*
S S. *Os cubiti Ulna vocatum.*
T T. *Alterum os cubiti, seu Radius.*
u u. *Processus Ulnæ recurvus Galeno ἀγκών.*
x x. *Processus ulnæ minor.*
Y Y. *Carpus octo constans ossiculis.*
Z Z. *Metacarpus quatuor habens ossa.*
α α α α. *Digitorum phalanges.*
β β. *Pollex tribus ossibus compositus.*

Sequentes Characteres Inferiora Sceleti ossa commonstrant.

A a a a a. *Quinque lumborum Vertebræ.*
B B. *Ossis Sacri interior facies una cum foraminibus.*
C C. *Ossis Ilij cavitas, magnam pelvis partem constituens.*
D D. *Os coxendicis cum acetabulo.*
E E. *Ossa pubis cum foraminibus.*
F. *Linea media pubis ossa connectens, mediante cartilagine.*
G G. *Os femoris.*
h h. *Rotundum ejus ossis caput.*
i i. *Ejus Cervix.*
k k. *Externus Cervicis processus seu Trochanter major.*
l l. *Alter processus, seu Trochanter minor.*
m m m m. *Capita femoris inferiora.*
N N. *Mola seu Patella.*
O O. *Tibia utraque, in qua*
p p p p. *Duos superiores sinus*
r r. *Spinam,*
s s. *Inferiorem processum seu Malleolum, denotat.*
T T. *Os fibulæ, seu Perone.*
u u. *Inferior ejus pars Malleolum externum constituens.*
X X. *Ossa Tarsi septem.*
α α. *Astragalus.*
β. *Calx seu calcaneum.*
δ. *Os cubiforme.*
Y Y. *Metatarsi ossa quinque.*
Z Z. *Ossa digitorum, e quibus duo pollici, reliquis digitis tria adsignantur.*



OSPEDALE
DELLA
CONSOLAZIONE
BIBLIOTECA

Alterum os, RADIUS [illegible] est, & a priori in medio [illegible] tenue interest *ligamentum*. Supra vero ulna radium excipit, [illegible].

Superior, ejus *pars* cum externo brachii processu articulatur per *Diarthrosin* unde motus pronus & supinus.

Inferior per appendicem cum carpi osse ad maximum digitum.

Hujus superior pars tenuior, inferior crassior, contra quam in priori.

MANUS EXTREMA seu *parva*, quadruplex habet *ossa* *Carpi* seu [illegible], *metacarpi* seu postbrachialis, *digitorum*, & *sesamoidea*.

CARPUS [illegible] octo habet *ossa* [illegible] *figura* & *magnitudine* differentia.

[illegible] postea sunt ossa [illegible] [illegible] *Mercurialis*.

[illegible] *ligamentis cartilagineis* [illegible].

[illegible] processibus [illegible] & [illegible] intervenit.

Alia vero sunt *ligamenta*, quae transversa & *annul*[illegible] [illegible] *internum*, [illegible] *externum*, extendentium. Quae vincula [illegible].

[illegible]

META[illegible] *palma*, *quatuor* habet *ossa* [illegible] numeratio [illegible].

[illegible] per [illegible] cum carpo [illegible] quae est motu [illegible], & per *ligamenta cartilaginea* cum digitis per [illegible].

Fistulosa sunt haec ossa medullam continentia, intus cava, foris gibbosa.

Appendices habent utrinque, quae prope digitos sunt capita rotunda & oblonga, digitorum sinus subeuntia. In medio ab invicem dehiscunt, ubi latent musculi dicti interossei.

DIGITORUM OSSA sunt *quindecim*, in quovis digito terna. Nam pollicis primum huc annumeratur, quia laxiorem habet articulationem, quam postbrachialia.

Seriem digitorum vocant Græci φαλαγγα, quia velut in acie stare videntur.

Habent singuli digiti ligamenta parte interna, secundum longitudinem instar canalium, quibus invicem ligantur.

Magnitudine differunt ossa digiti. Nam in quovis digito primum majus est secundo, & secundum tertio: omnia vero in articulationem crassiora sunt, ob tubercula eorum dicuntur *κονδυλοι, nodi*.

Foris gibba sunt, intus cava & plana ad apprehensionem.

Processus habent supra & infra, præter tertij internodij ossa, quæ supra non egebant, ubi unguibus junguntur.

CAP. XXI.

DE OSSIBUS TOTIUS PEDIS.

PEs sicuti & manus *dividitur* in tres partes. *Femur, tibiam, & extremum pedem.*

FEMUR à ferendo dictum, eo quod totam machinam ferat & sustineat, unico osse constat, sed maximo & longissimo totius corporis, cujus pars antica & externa magis gibba, interna & postica magis sima.

Admonitio Chirurgica. Etenim oblique, interiora versus, ad genu descendit, quod notandum Chirurgis, ne in ejus fractura hunc situm invertant.

Pars superior tres habet *processus*, qui potius epiphyses sunt, & facile in puerulis separantur.

I. Est caput maximum & rotundum, ex appendice factum, quod in coxendicis acetabulum inseritur, & duplici *ligamento* cum coxendice nectitur: *uno* communi, lato, membraneo, sed satis crasso, orbiculatim articulum ambiente; *altero*, tereti, (quasi cartilagine, ac si nervus esset cartilaginosus) inter femoris caput & profunditatem cavitatis, ne femoris caput excidat.

Est & aliud ligamentum cruentum intra acetabulum interjectum ossibus notatum *Vesalio*, tale ligamentum reperitur in articulatione Tibiæ cum femore, in osse scaphoide cum astragalo, in articulatione ossis sacri cum osse ilium quod apparet manifestum in puerperis, *Roelans* monstr-

Ha, ut

H[illegible] *tertius processum* habet duplicem, appendice donatum [illegible] appendices facile in infantibus divelluntur, non in adultis.

II. [illegible] externus, qui dicitur magnus *τροχαντὴρ* vel *rotator* [illegible] tas, adpressiones & lineas.

III. Internus, *parvus rotator*.

Processum [illegible] *a se* [illegible] tatum, [illegible] *tuber* [illegible] est magnitudine cedens duobus superio[illegible] exteriore quodam[illegible] tuo rotatore majore. Sub hoc [illegible] excavatus, unde [illegible] & os quodammodo [illegible]

[illegible] per quos motus fit, [illegible] etiam *τροχαν-τῆρ*.

[illegible] *ginglymo* articulatur. Nam ad [illegible] & extremo lat [illegible] inter quæ capita spa[illegible] per quod vasa cum [illegible] ob convul-sionem in hac parte periculosa vulnera.

M[illegible] os rotundum & latum, hoc [illegible] articulationi femoris & tibiæ, ubi genu [illegible] excepta mola. Al[illegible] *patellam, genu, molam, scutum, os scutiforme, &c* [illegible] genu constituit.

Substantia ejus [illegible] in pueris est cartila-[illegible] ossea.

Figura [illegible] circularis [illegible] in medio ejus pars crassior [illegible] prominet. *Rolfincio* repræsentat scutum [illegible]

[illegible] & firmatur tendinibus crassioribus musculo-rum [illegible] femoris.

Mobilis est, & ad [illegible] motum intus ad femur, car-t[illegible] lubrica.

Usus est I. Articulum ibi firmare, ne femur ad anteriora luxetur & [illegible], atque ita homo cadat, præsertim per declivia ambulans, & genu multum flectens. In Nova Zembla feruntur homines retrorsum æque ac anteriorum genu flectere.

II. Ad tendines musculorum tuendos.

TIBIA pars inter genu & talum, *ossibus duobus* constat, ut cubitus.

Unum, [illegible] & majus totius nomine donatur, & *tibia* dicitur [illegible], aliis *Focile majus*, *canna major* &c. [illegible] [illegible] flexura est [illegible] in medio [illegible] [illegible] *Boneto*, præter alias communes.

Parte superiore processum habet in medio a femoris cavitate exceptum, & *sinus* binos oblongos pro femoris capitibus, quorum [illegible] profunditatem auget natura per *ligamenta cartilaginea* [illegible] [illegible] & [illegible] [illegible] [illegible] [illegible] [illegible] unde *lunata* dicitur. [illegible] [illegible] [illegible] [illegible] [illegible] locum, a parte [illegible] [illegible] [illegible] los externos sinus, multo minor.

Sinus duos separat *tuberculum* ibi natum ex cujus [illegible] *ligamentum* robustum [illegible] [illegible] gitur.

A regione vero antica & aspera veniunt ligamenta quæ cartilagines lunares augent.

Anterior ejus pars acuta & longa, *spina* dicitur [illegible] quasi figura triangularis est, & [illegible] acuta est [illegible] [illegible] Unde hac parte anterior [illegible] [illegible] lor fit [illegible] quia cutis vicina & per [illegible] quasi cultro scinditur.

Inferiore parte adest *processus* excarnis in interno latere gibbus & prominens, juxta pedem, dicitque *malleolus internus*, sicuti processus fibulæ, *malleolus externus*.

FIBULA *minor*, quia tibiæ [illegible] conjungere videtur, dicitur etiam *sura*, *canna minor*, *Focile minus* &c. [illegible] que os minus & tenuius, tibiæ externo latere accumbens, ut [illegible] dius cubito.

Parte superiore caput ejus rotundum genu non attingit, sed infra [illegible] ac *parte inferiore* [illegible] tibiam [illegible] adeoque æque longum os est atque tibia.

In medio ab invicem dehiscunt tibia & fibula, ob musculos pedis [illegible] locatos, quo intervallo *ligamentum* tenue & latum secundum longitudinem hæc ossa [illegible] [illegible] [illegible] [illegible] etiam tibiæ ligamento communi, superius & inferius.

Inferius caput in acutum tendens, *appendicem* habet, quæ crassescens, [illegible] processum, dictum *malleolum externum*, protuberantem illum locum externum, excarnem ad pedem, interno humiliorem.

PEDIS

Pedis Extremi Ossa [illegible] ossa manus, in tres [illegible] *tarsum* seu p[illegible], *metatarsum* seu metapedium, & *digitos*.

Tarsi [illegible] *septem* sunt, quorum quatuor posteriora [illegible] numerant quia eius priora in manu non habent sibi ossa similia.

I. [illegible] Talus, vulgo *os balistæ*, dicitur & *quartio*, à quatuor lateribus.

B[illegible] ossibus [illegible] ossibus [illegible] jungitur cum [illegible] *cartilagine* obdu[illegible] *sinus* [illegible] est [illegible] flectitur.

A[illegible] jungitur etiam [illegible] osse [illegible] & [illegible] calce, duplici ar[illegible] est, bis cavata, & ter globosa. Ossis calcis caput recipit.

[illegible] cui calc[illegible] cont[illegible] & [illegible] ligamenta [illegible] tenuia, [illegible] ossa ipsa [illegible] excaecantur. [illegible] sub [illegible] vel ex [illegible] tacto, ve[illegible] inter ambula[illegible] in pede [illegible] ossium [illegible], atque tamen dolore, [illegible] sentiuntur, sed tantum ossa, cartilagines & ligamenta. *Sonus in pede inter ambulandum under Authoris observ. & ratio.*

II. Maximum & crassissimum in pede, quippe a [illegible] ad [illegible] per [illegible] ad acen[illegible] tibus.

Dicitur [illegible] *calx*, *calcaneum pedis calcar*, in quod os *Chorda* totius corporis maxima & robustissima [illegible], ex [illegible] musculo[illegible] ped[illegible] contlata.

Parte [illegible] *inferior* [illegible] est, versus po[illegible] a vergens, [illegible] *superius* caput [illegible] [illegible] & [illegible] formi jungitur capite depresso.

III. Dicitur [illegible], a scaph[illegible] vel [illegible] *connectitur* cum talo, & [illegible] ossibus po[illegible].

IV. A forma cubi dicitur *cuboides*, item *os tessera*, *Arabibus grandinosum*, [illegible] Cæter[illegible]

pra

FIGURARUM EXPLICATIO.

Figuris his cum Musculi digitorum pedis com[illegible] que tendines exhibeantur, ex *Aquapend[illegible]* Caput de Musculis pedis referri debet.

FIGURA I.

A. *Calcaneus.*
B B B B. *Tendo latus in suo situ.*
c c c c. *In ortu tendin[illegible] digitos pergens.*
d d. *Adducens musculus pollicem.*
e e. *Adducens minimum digitum.*
f f. *Interossei mu., circa minimum digitum extendentes.*
g g. *Interossei pollicem extendentes.*

FIGURA II.

A. *Calcaneus.*
B. *Tendo latus plantaris musculi, extra situm protractus.*
c c c c. *Quatuor tendines musculi perforati, seu flexores secundi internodij, in situ.*
D. *Pollicem adducens.*
e. *Tendo internus ejusdem musculi in primum os pollicis insertus.*
f. *Abducens minimum pedis digitum.*
g. *Interosseus mu., cuius externum latus ultimi ossis pedis occupans.*

FIGURA III.

A. *Calcaneus.*
B. *Perforatus extra situm, seu flexor secundi digitorum internodij, cum quatuor suis tendinibus.*
C. *Musculus tertium digiti articulum flectens.*
d d d d. *Quatuor tendines ejusdem mu. cute perforantes.*
e e e. *Quatuor musculi lumbricales primum internodium flectentes.*
f f. *Duo interossei musculi in situ, externum latus ultimi ossis metatarsi occupantes.*
g g. *Adducens musculus minimi digiti è situ suo remotus.*
h. *Pollicem flectens.*
i. *Pollicem adducens.*
k. *Musculosa corporis portio ad lumbricales vergens.*

TABULA IX.

praeponitur [illegible] superficie *pungitur*, altero latere com[illegible] pollicis quarto & quinto. Lateribus vero [illegible] tarsi osti.

[illegible] *Fallopio Calcoides* [illegible] [illegible] & minus a latiori basi sensim acuminato.

OSSA METATARSI, vel plantae, *quinque* [illegible] ossi[illegible] contexta, [illegible] inter se proportio, [illegible] [illegible] [illegible], ex [illegible] quo [illegible] [illegible] [illegible], cum quo [illegible] & [illegible] [illegible] [illegible] *quatuordecim* [illegible] ex duobus ossibus constatur, & [illegible] quam in manu, sed pollicis crassiora quam in manu.

Caetera [illegible] in manu [illegible] respondent [illegible] cur & ligamenta fere respondent.

Verum sub planta pedis, cute adipeque remota, *ligamentum* [illegible] est validumque, ab imo calcis os[illegible] [illegible] [illegible] [illegible] [illegible], pro totius pedis [illegible] [illegible].

CAP. XXII.

DE OSSIBUS SESAMOIDEIS.

IN [illegible] manuum & pedum reperiuntur Ossicula [illegible] SESAMOIDEA, quia Sesami semini respondent [illegible] & parvitate.

Riolanus [illegible] [illegible]

Majora sunt in pedibus, [illegible] pedis [illegible] major est quam manus pollex. [illegible] [illegible] majora & [illegible] [illegible] plana.

Innascuntur [illegible] musculorum [illegible] digitos moventium [illegible] [illegible] [illegible] [illegible] ossibus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] bus [illegible], modo ossea [illegible] bus [illegible] [illegible] [illegible] & porosa.

Numero commun[illegible] duodecim sunt in singulis manibus & pedibus, [illegible] 19. 20. & [illegible] [illegible] [illegible] decem tantum. [illegible] [illegible] [illegible] [illegible] quae [illegible] [illegible] [illegible] *Riolanus*. Numerus ergo incertus est. [illegible]

[illegible]

multa ita parva sunt, ut non observentur: & tanquam in [illegible] necessaria natura [illegible] modo abundat, [illegible].

Peculiariter vero notanda sunt duo majora, [illegible] *illa* [illegible] pollicis [illegible] ad [illegible] apparent, quod [illegible] *magnum* [illegible] [illegible] [illegible] *forma & magnitudo* [illegible] [illegible] *Arabes* appellant *Albadaran*. Ex hoc [illegible] quam [illegible] versus pro-[illegible], [illegible] nomine [illegible] [illegible] *Cornel. Agrippa* [illegible] *Bullerbaen* [illegible] *Luz*. [illegible] Aliud vero [illegible]. *Fabula quaedam.*

[illegible] digito [illegible] [illegible] & [illegible] licet.

[illegible] in manus externo latere, ad connexum ossis [illegible] & [illegible] parvum digitum [illegible] [illegible] eodem modo tale os-[illegible] ad [illegible] articulationis ossis [illegible] cum cu-[illegible] obscura [illegible] extra os femoris, [illegible] non [illegible] [illegible] & leporibus. [illegible] in [illegible] ossibus [illegible] [illegible].

Usus.

I. Tendines tueri, & retinere durante statu motu, ne ab articulo exuberante decidant.

II. Firmare articulum, & a luxatione praecavere.

III. Intervalla vacua replere. Et haec omnia fiunt in manibus [illegible] in pedibus vero [illegible] atque ambulatio constantior, praesertim per loca aspera.

DEO CREATORI NOSTRO SIT LAUS,
Honor & Gloria, qui nos ex nihilo tam mirabili structura formavit!

FINIS.

JOHANNIS WALÆI EPISTOLÆ DUÆ:

DE

MOTU CHYLI,

ET

SANGUINIS:

AD

THOMAM BARTHOLINUM,

CASP. FILIUM.

EDITIO UNDECIMA.

ARISTOTELES

3. de Hist. Animal. cap. 2.

Περὶ τοῦ αἵματος καὶ φλεβῶν τῶν πρότερον ἀποφηναμένων τινὲς ἄλλως λέγουσιν αὐτοί· τὸ δ' αἴτιον τῆς ἀγνοίας, τὸ δυσθεώρητον αὐτῶν. ἐν μὲν γὰρ τοῖς τεθνεῶσι τῶν ζῴων, ἄδηλος ἡ φύσις τῶν μεγίστων φλεβῶν, διὰ τὸ συμπίπτειν εὐθὺς ἐξιόντος τοῦ αἵματος μάλιστα ταύτας· ἐκ τούτων γὰρ ἐκχεῖται ἀθρόον, ὥσπερ ἐξ ἀγγείου. καθ' αὑτὸ γὰρ οὐδὲν ἔχει αἷμα πλὴν ὀλίγον ἐν τῇ καρδίᾳ, ἀλλὰ πᾶν ἐστιν ἐν ταῖς φλεψίν. ἐν δὲ τοῖς ζῶσιν ἀδύνατόν ἐστι θεάσασθαι πῶς ἔχουσιν, ἐντὸς γὰρ ἡ φύσις αὐτῶν. ὥσθ' οἱ μὲν ἐν τεθνεῶσι καὶ διῃρημένοις τοῖς ζῴοις, θεωροῦντες τὰς μεγίστας ἀρχὰς οὐκ ἐθεώρουν, οἱ δ' ἐν τοῖς λελεπτυσμένοις σφόδρα ἀνθρώποις, ἐκ τῶν τότε ἔξωθεν φαινομένων τὰς ἀρχὰς τῶν φλεβῶν διώρισαν.

EPISTOLA PRIMA DE
MOTU CHYLI, ET SANGUINIS:
AD THOMAM BARTHOLINUM, CASP. FILIUM

EXercuit ab omni ævo Rempubl. & Sapientum Authores de primatu contentio: sed nullo seculo [illegible] quam hodie conati sunt præ reliquis eruditi videri. Et quo id impetrent non verentur plurima in [illegible]. Nemo [illegible] potest, quin egregium [illegible] qui non statim obtrectatorem inveniat, qui eum pungat, se non lacesset [illegible]. Nihil aliud autem [illegible] laboribus, quam invidiam & animi ægritudinem quærere extrema dementia est. *Parisios*

Hæ, fateor, impediverunt me causæ quo minus crebrius [illegible] potuerim [illegible], simul & quod ea non [illegible] quæ longa annorum experientia aut probare non poterit aut non potuit satis [illegible]. Tu tamen rogare nō destitisti, & ego pudore suffundor semper negare. Necessitatem quasi quoque mihi imponit vir quidam doctus, ut meam de motu [illegible] sententiam aliis debeam aperire. Theses enim quasdam de motu sanguinis me Præside disputatas, et amsi Defendentes vere in iis profiteantur suas esse, ut meas tamen aggressus est vellicare. Quamvis autem pudere [illegible] juvenem [illegible] thesium non debeat [illegible] tamē aliena, etiam meo præsidio defensa, pro meis æstimare. Nec ei rationes in obscuro sunt, qui meam in disputando libertatem, aut Academiæ nostræ consuetudinem noverit. *Scribendi occasio.*

Quare nunc meam de motu sanguinis opinionem habe[illegible]

Quem sanguinem per quas moveatur?

Sanguis qui [illegible] *majoribus arteriis* exit [illegible] tenuior [illegible], & floridiori colore est, quam [illegible] [illegible] venis [illegible] non [illegible] tamen [illegible] sanguinem arteriosum a venoso tota forma differre [illegible] [illegible] [illegible] cor [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] dem animali sumsimus è venis, sivimusque [illegible] utrumque & [illegible] [illegible] potuimus [illegible] rentiam observare. Ut non aliud appareat quam sanguinem arteriosum, ejusdem generis cum venoso esse.

[illegible] *sanguinem* duorum esse generum [illegible] [illegible] in vena cava, al[illegible] in vena porta [illegible]. Sed [illegible] his, sive receptac[illegible] [illegible] [illegible] ius effusi sint, [illegible] [illegible] animadvertere [illegible] prorsus ratione [illegible] mox videbimus.

Præter hos a[illegible] quoque concipi sanguis potest, qui è chylo [illegible] hepate confectus, [illegible] perfectionem [illegible] de [illegible] accepit [illegible] [illegible] [illegible] vena cava [illegible] sanguini [illegible] [illegible] perfectionem in corde acq[illegible] [illegible] [illegible] cognovisse, [illegible] [illegible] tempus talem [illegible] perdurare [illegible] mus. [illegible] *sanguinis* [illegible]

Eum unius generis esse

Moveri [illegible] [illegible] vel *in ea arteria venave parte in qua* [illegible], vel *ex ea parte in aliam.*

Nec moveri sursum & deorsum in vasis.

Sanguis in *una arteria venave parte* [illegible] [illegible] [illegible] [illegible] moveri [illegible] [illegible] vivo [illegible] corpore [illegible] cordis [illegible], cordeque erecto, cauæ sanguis [illegible] sus est, nunquam [illegible].

Sed moveri ab una vasis parte in aliam.

Moveri autem sanguinem *ab una arteria venave parte in* [illegible] est. Nam in extremitatibus ve[illegible] [illegible] non sit, eo de[illegible] [illegible] Et manifesto facis in vivis ex vena cava in cor sanguis fluit, & è corde in Aortam ejicitur.

Quo

Qua autem totus ille sanguinis motus nobis possit innotescere, ab ipso fonte videtur accedendum.

Qui motus ut cognoscatur fundamentum requirendus chyli motus.

Sordidum [illegible] conspeximus [illegible] ordinem, quo [illegible] ventriculus [illegible] & eum ordinem [illegible].

Q[illegible] ventriculus, [illegible] tantum [illegible] videmus [illegible] explorare [illegible].

Cibus primo assumptus primum locum in ventriculo occupat.

Retentus in ventriculo cibus, totus à cibi, potus [illegible] & [illegible] & [illegible].

Eum arcte complectitur ventriculus.

Pa[illegible] & quod [illegible] & tenuis & crassior cibus, imo in [illegible] humore quo [illegible] contingit [illegible] aceto, [illegible] ventriculum [illegible] tamen [illegible] habe[illegible] bo[illegible] macerari [illegible] & [illegible] quos [illegible] vivos [illegible] in [illegible] ventriculum [illegible] erat per [illegible], & [illegible] ventriculo, [illegible] erat [illegible] animalibus [illegible].

Eum humectat ventriculi humor.

[illegible] humor acidus

Ac[illegible] ex [illegible] in [illegible], quod non [illegible] pars [illegible] in corpore [illegible] quoque [illegible] cocto bene & perfect[illegible] quoque ventriculi a copia & crassitie cibi emendetur.

E bene.

Ita [illegible] per minima commixtus [illegible] tempo[illegible] demum [illegible]

Postea commutatur in cremorē.

[illegible]

Alius citius, alius tardius.

Verum en [illegible] hanc in ventriculo commutationem [illegible] non accipit [illegible] paulo [illegible] breve mali [illegible] tempus ex [illegible] magna copia, [illegible] magnis frustis deglutitur: adeo ut dentibus bene [illegible] in cremorem mutari incipiat, quando is [illegible] [illegible] est qui [illegible] majoribus est devoratus.

Et quã cito aut tardè concoquatur & distribuatur panis.

[illegible] horæ spatio [illegible] suam perfect[illegible] & [illegible] impediat [illegible] [illegible] ab iis [illegible] [illegible] substantiæ modo [illegible] [illegible] autem est [illegible] prima hora [illegible] dimidia immutati [illegible] [illegible] proxime [illegible] [illegible] frustra [illegible] & [illegible] totum [illegible] apparet, mox [illegible] tandem [illegible] pane concocto [illegible] [illegible] ab [illegible] horam per [illegible] à ventriculo ad intestina [illegible]. Remanere vero [illegible] à pane reliquum & [illegible] debitam perfect[illegible] reciperet, ut & si quis [illegible] cum pane forte [illegible] [illegible] concoctio [illegible] hoc animadvertimus [illegible] concocti. [illegible] perfect[illegible] & [illegible] & octavam [illegible] & [illegible] [illegible] partes [illegible] devoratam [illegible] in [illegible] usque diem [illegible] ventriculo & [illegible] ea facta esse cartilaginea vidimus.

Integrane, an per partes?

Imo [illegible] partibus magna sæpe varietas conspicitur, ut e pane [illegible] etiamsi integræ in ventriculo videantur, aliquid tamen [illegible] copia [illegible] quandoque [illegible] ad venas lacteas [illegible].

Adeo ut quidquid concoctum est, [illegible] concoct[illegible] neutiquam expe[illegible], [illegible] concocto quo [illegible] tur, sed quamprimum excutia[illegible] & ad intestina [illegible] [illegible], etiamsi ante horas [illegible] canis [illegible] ventriculus cibo plane vacuus reperitur.

Hæc autem observare [illegible] in [illegible] bus, quos, vario post assumpti[illegible] tempore, [illegible] secavimus.

Concoctum distribuitur per intestina &

[illegible] *chylus* colore [illegible] est, nec [illegible] bilis flavedine [illegible] ab ipso autem jam duodeno [illegible] [illegible] venas lacteas ingredi[illegible] [illegible] intestinis, quamdiu aliquid in intestinis chyli reperitur, u[illegible] rectum

[illegible] intestinorum venis lacteis donatum sit, quæ [illegible] chyli, non raro conspiciantur candicare. Et ne [illegible] quam ex [illegible] venas has lacteas, eo post [illegible] intestinorum [illegible] a cavitate [illegible] & [illegible] mesenterium versus depleri & concidere.

per venas lacteas.

[illegible] venam ullam [illegible] nec [illegible] constanter [illegible] est [illegible] non aliud appareat, quam natura [illegible] chylo, venas ventriculi & [illegible]

Non per venas meseraicas.

[illegible] est [illegible] ex [illegible] devenerit.

Semper eandem.

[illegible] venam cavam prope emulgentes deferre. Ex [illegible] Mesenterii principio [illegible] pancreas appellavit. A harum [illegible] in morbis, ut [illegible] manifesto [illegible] Sed [illegible] vena cava [illegible] in ramos divisas & [illegible]

Unde & commune in lacteum ductu.

A[illegible] venæ lacteæ [illegible] accuratius [illegible] comperimus.

Non ad lienem.

[illegible] has venas [illegible] chylus per [illegible] in portæ vena, in [illegible] hepate [illegible] venæ lacteæ semper [illegible] partibus [illegible] cum illis partibus manifesto [illegible]

Sed ad hepar.

Rami venæ portæ in hepate, quamvis variis in locis annectantur

ne[illegible]ntur ramis venæ cavæ, nunquam tamen in ramum majorem venæ cavæ aperiuntur [illegible] per eos ramos [illegible] venæ cavæ ramos chyli [illegible] sanguinem [illegible] stes [illegible]: ut inflato ex[illegible] hepate aqua [illegible] [illegible] facile [illegible] est. Idem re[illegible] sanguinem [illegible] postea demum manifestum evadit.

Ex hepate in venam cavam.

E ramulis venæ cavæ in hepate, sanguis [illegible] in truncum ipsius *venæ cavæ* [illegible] & manifesto [illegible] par in vivis ligata [illegible] sanguine intumescit.

E vena cava in cor.

Ex vena cava *cordis ventriculum dextrum* [illegible] per [illegible] parte, [illegible] præter [illegible] venis libelli sui cap. 10.

E dextro cordis ventriculo in venam arteriosam.

E dextro cordis ventriculo, manifesto satis *venam arteriosam* intrat, & per eam in *pulmones* fertur.

Non vero per septum intermedium.

At [illegible] quoque sanguinem e dextro cordis ventriculo *per septum intermedium* in sinistrum venire [illegible] transire non ausim adserere, cum [illegible] per eas vias [illegible] venam. Refert *Petrus Gassendus* vir [illegible] [illegible] Exercitat. in Fluddum Philosophiam [illegible] cap. [illegible] vidisse [illegible] *Payanum* [illegible] septum cordis [illegible] per varios mæandros [illegible] quasi [illegible] pervium esse [illegible] [illegible] les [illegible] & dilatare [illegible] & utrinque [illegible] res, atque [illegible] [illegible] sed observavimus [illegible] eas vias, eos mæandros [illegible] naturali [illegible] sed a stylo aut cuspide cultelli [illegible] tactam viam aperimus aut ulteriorem quærimus: caro enim cordis ita tenera [illegible] & constricta est, ut a minimo rei perforantis attactu [illegible] & [illegible] relinquat, adeo ut & latera cordis ita potuerimus pervia invenire.

E vena arteriosa, in arteriam venosam, & sinistrum cordis ventriculum.

[illegible] per venam arteriosam in pulmones sanguinem per *arteriam venosam* ad *sinistrum cordis ventriculum* [illegible] quod ligato prope [illegible] pulmone [illegible] majori ramo [illegible] videmus [illegible] cum [illegible] & in tumorem [illegible] ea parte [illegible] qua cor spectabat [illegible] solutaque ligatura sanguinem ad sinistrum cordis ventriculum [illegible] a canibus observare. Hic autem sanguis cum aqua [illegible] venire non possit, ex vena arteriosa huc debet defluere.

Lumen

Fernandus Boralius, vir doctissimus, in hac lib. de Catarr[illegible] invenisse se [illegible] arteriarum [illegible] dextro [illegible] sinistrum ventriculum perpetuo sanguis [illegible]. *Paulo supra Coronalem,* [illegible] *facta sectione,* [illegible] *ductum juxta auriculam dextram, qui* [illegible] *in sinistram aurem recte et aperte fertur.*

[illegible] prorogatus sit venae cavae ad arteriam [illegible], quem *foramen ovale* appellamus, aut aliis [illegible] [illegible] in ovillo corde reperimus [illegible] [illegible] ad [illegible] aquam absque [illegible] est [illegible]. — *Nō autem per foramen ovale.*

[illegible] ovale ubique quidem [illegible] aliter non occluditur, & saepe in medio accrescens membrana [illegible] [illegible] arteriam venalem e [illegible] [illegible] non est difficile aliquid [illegible] penetrare.

Omnibus vero [illegible] nobis in ovillo corde visis, [illegible] penetrat, sed [illegible] prorsus ad [illegible] auriculam fertur. Putamusque [illegible] esse, quae ramos non solet a Coronaria [illegible] accipere.

Ex iis vero quae raro accidunt, nihil eorum concludendum est quae perpetuo debent evenire in cordis [illegible] fabrica [illegible] natura. Ita in bovini cordis [illegible] superna parte [illegible] cordis, longitudine [illegible] invenimus, ad [illegible] ventriculum circa mucronem parvulum, qui longitudine [illegible] amplitudine [illegible] aequabat. [illegible] videre *Aristoteles* [illegible] majora animalia tres [illegible] ventriculos habere. Nam maxima animalia [illegible] ventriculos habent, ut in [illegible] animadvertimus.

Adeo ut videatur sanguis, non alia via ordinariam quam per pulmones ad [illegible] cordis ventriculum vadere. — *Indeque in arteriā Aortā,*

Ita ad [illegible] cordis ventriculum delatus sanguis, inde in *arteriam aortam* [illegible], [illegible] *arteriolas* [illegible] enim [illegible] ligatis [illegible] modum versus cor [illegible], & extrema versus concidunt, ac aperta ligatura [illegible] ad [illegible] dimittunt. — *vel quasi quae arteriolas.*

Sanguis [illegible] potest [illegible] *arteria* [illegible] *in vena, per via* [illegible]. Et quo esse — *Ex arteriis sanguis*

certa

per communia osculo. cerci possemus per ea oscula sanguinem posse transire, venam & arteriam in demortuo cane prope liberavimus ab his quæ eorum solent visum impedire, inquirimusque venam cruralem majorem & eam in iliis ligavimus, ne illac alia quid sanguinis ... ueret. In genu vero ligavimus venam hanc [illegible] & [illegible] a ... digitis ... arteriis iliacis ad genu usque adegimus, atque ... arteriam ... venam vero cruralem ... est manifesto repleri, cumque in venam superne infernéque ... tam ex ejus ... [illegible] ... ut ... [illegible] ... gebamus eum sanguinem quo ... vena per ... ex arteriis ... esse depulsum.

Veteribus cognita. Eam vero opinionem novam non esse ipse Galenus de usu partium ... ostendit. *Arteriarum venarumque synastomoses sensum nostrum effugiunt ... si ipsis sint parum constantibus merito fidem abrogo ... per ea ... certe qua veteribus ... prodita esse credas. neque in postremis ex hac re evidentia ... si quis namque accepto animali quod ex iis quibus ampla manifestaque vena & arteria sunt, velut bove sive asino equo, urso simia, pardali, homine ipso, vel simia ... arterias vulnerat, universum ... sanguinem per eas exhauriet. Hujus rei periculum ... mus, & cum semper vacuatas cum arteriis venas deprehendissemus, verum esse dogma de communibus arteriarum & venarum osculis, & commeatu de una in alteram ... bus persuasimus.* Imo recepta ... guinem arteriosum ... venas ... quo partes arterioso venoso ... longo ... nutriantur.

Venas ingrediuntur. Et revera sanguinem ex *arteriis* per ea oscula ... ter in viventibus *venas ingredi*, hæc indicia ... testantur.

Ut docet copia missi sanguinis ad partes. Qui in vivis dissectionibus ad eam copiam attendit quæ per arterias partibus ... communicat ... ab animo suo ... partibus ... ne ... [illegible] ... arterio ... [illegible] ... vestibus ... [illegible] ... sæpius animadvertimus ... gerant ... & concrescere. Unde merito cum *Harveo* ... communicatum ab arteriis, venis partibusque ... magna ex parte ad majores venas ...

Compressio venæ infra soramen in venæ sectione. Deinde ... venam in brachio ligato secamus, si venæ tumentis partem ... [illegible] ... venas ... est ... copiosius, aut similem ... [illegible] ... chio

[illegible] prope vulnus versus manum [illegible], nihil sanguinis videbis effluxurum; unde videtur confirmari sanguinem a manu venire, qui per factum vulnus exit. Et cum is sanguis venæ sectione sæpe ad libras educatur, tantumque in inferiore venarum brachij parte contineri non possit, eo debet ex arteriis venulis, quæ ligatura supra factam venam occlusæ non sunt, ut integer earum pulsus ostendit.

Sed quo id nobis ad oculum liqueret, aliquoties in vivis sectionibus etiam majoribus, venam & arteriam amplam in inguine ab invicem separavimus, quæ earum visum impediebant, quod facile fieri potest nisi musculis [illegible] venam autem illam hinc ligavimus, aut [illegible] cum venæ partem quæ cor versus [illegible] concidere & inaniri, sed ipsam vero pedem versus [illegible] intumescere, adeo ut præ plenitudine durior ipsa arteria videretur, at soluta hac [illegible] sanguinem mox sursum moveri & venæ ductum ac plenitudinem admodum imminui. Ligata vero arteria, tumescere nunquam in modum eam partem quæ Aortæ vicinior esset, concidere remotiorem, nec venam inde [illegible] evidenter intumescere. Idque sæpius factum accidere semper eodem modo.

Ne tamen ullus nobis superesse scrupulus posset, & ut [illegible] animadverteremus nihil quod in vena adest [illegible] eandem venam & arteriam elevavimus, nonnihil & sub iis [illegible] ligavimus, ne per aliam quam eam quam elevassemus venam [illegible] moveri sanguis posset. Tum [illegible] venam & simul occlusam venam, ut sequens figura expressimus, supra filum & infra filum aperuimus levi vulnere [illegible] ex ea venæ parte quæ a corde remotior esset, sanguis multus copiose, & impetu effluxit. Illa vero pars venæ quæ a filo cor [illegible] paucas tantum guttas distillantes dedit. Unde nobis videbatur evidens sanguinem non deorsum e venis majoribus, sed sursum e venis minoribus ad majores devenire, præsertim cum injecta alia ligatura [illegible] venæ remotiori a corde, e [illegible] e quo [illegible] amplius vidimus sanguinem effluere. At [illegible] eas partes quæ e vulnere [illegible] laberentur provenire posse [illegible] ne quem [illegible] vulneraretur vena [illegible], aut quem ex alio ramo venæ [illegible] supra filum [illegible] acciperet, verum hæc causa mox clarior evadet.

Obvium est idem sine ulla sectione in iis experiri, qui conspicuas admodum venas brachij habent. In quibus si uno digito venam prope manum occludas, altera manu sangui-

Ligatura venæ in vivis.

Dissectio venæ in vivis.

[illegible] venarum apparentium in cute.

[illegible] sum adigas, tota videbitur vena [illegible]
replebitur simul ac [illegible] venae partem [illegible]
[illegible]
[illegible] cap. [illegible] sanguinem [illegible]
[illegible] valvulas [illegible]
[illegible]
[illegible]

Cum itaque a manibus [illegible] venas [illegible]
[illegible] autem pedesque sanguinem novum non [illegible]
[illegible] corpore [illegible] suppeditare [illegible]
[illegible] ex arteriis [illegible] & [illegible]
venas ingrediatur, & ex *minoribus* [illegible] *ad majores* [illegible]

Neque vereor arteriosum sanguinem, simplici [illegible]
cum ea contineri non posse, quem video in arteriis [illegible]
[illegible] & [illegible] fluere [illegible]
[illegible] Quod vero [illegible]
[illegible] acceperint [illegible]
[illegible] cordis sanguinem [illegible] arteriae [illegible] eam laxa-
[illegible] valido palpitantis cordis motu videmus.

[illegible] Solum non [illegible] ex arteriis [illegible] ex maximis venis
[illegible] venis [illegible] possit venaesectio
[illegible] vena
[illegible] vena
cava in azygon [illegible]
[illegible]
[illegible] arteriis brachii [illegible]
[illegible] axillaris ex aorta [illegible] intercostales
[illegible] stales ramulos in pleuram, non vero per azygi ramulos
[illegible]
[illegible] per arterias [illegible]
[illegible] vena [illegible] dextram [illegible]
[illegible] cernas: cum azygos a dextro venae cavae latere [illegible] &
[illegible] eo latere [illegible] vena [illegible]
[illegible] latus [illegible] affectum [illegible]

[illegible] quodam
[illegible] quod ligata vena [illegible] brach
[illegible] nequeat sanguis [illegible] Non est [illegible]
[illegible] est [illegible] arteria. Et [illegible]
[illegible] quod non raro [illegible] brachii [illegible]
[illegible] quam in [illegible]
[illegible] modo per [illegible]
[illegible] Fortasse tamen posset & pars
[illegible] ligata tantum vena, quod natura [illegible]

[illegible]

ACADEMIA

FIGURÆ EXPLICATIO.

A Crus canis dextrum. B Crus canis sinistrum.

C, D Ligatura subjecta arteriæ & venæ, quæ femur fortiter constringunt, expressa in dextro crure ne in altero, cum linearum sua confusione in sinistro crure spectatorem posset turbare.

E. Arteria cruralis. F Vena cruralis.

G. Filum quo constricta est vena & est elevata.

H. Acus, cui filum est trajectum.

I. Venæ pars superior à ligatura detumescens.

K. Venæ pars inferior à ligatura intumescens.

L Guttæ sanguinis, quæ, à superiori parte venæ vulneratæ, sensim destillant.

M Rivulus sanguinis, qui, inferiori venæ parte vulnerata, continuo exilit.

novum sanguinem per arteriam in partem infundere non possit quam per venas [illegible] Et quamvis copiam tum [illegible] arteriae & venae communicant, forsan in [illegible] aptius quo partes bene nutriantur, verum id postea constabit.

Nec Varices. Manifestum tamen est in varicosis sanguinem e vena cava ad majores a minoribus ad minores venas descendere. Id [illegible] in varice femoris, pedis, & haemorrhoidibus obvium est videre. Verum [illegible] sanguinis potest praeter naturam [illegible], quae [illegible] venae sanguinem [illegible] non [illegible], sed [illegible] & [illegible] suas [illegible] praeter naturam [illegible] & [illegible], unde [illegible] in minoribus venis cumulat, accedente semper ex arteriis novo sanguine, [illegible] & varicem faciant. Ita [illegible] circa ea loca [illegible] stagnare observamus, tandem a gravitate aquae descendere [illegible], quae tamen ex natura [illegible] deberet ascendere. Et omnino verosimilius est hac ratione varicem accidere. Et [illegible]; quia humores in varicosis, quando ad motum in exercitio impetum habent, majorem venae dilatationem non faciunt, sed ubi ab exercitio quievere, quod minori motu humores [illegible] possint & gravitate sua descendere.

Sed a minoribus venis ad venam cavam fluit. Adeo ut haec in [illegible] non [illegible] sanguinem e majoribus venis in minores, sed [illegible] sanguinem ex arteriis venas intrare, & e minoribus venis ad majores plenamque *venam cavam* deferri.

E vena cava iterum in cor. Ex vena cava jam [illegible] sanguinem dextrum cordis ventriculum ingredi. Sed [illegible] *sanguis qui jam antea e vena cava cor intraverat*, & e corde in arterias erat effusus, indeque redierat in venas, an iterum cor ingreditur? an vero is solummodo [illegible] de novo in hepate gignitur, venam cavam primum ingreditur, nec unquam cor transgressus est? Certe uterque.

Iterum is sanguis qui cor jam transgressus est. Facile enim id fieri potest, cum [illegible] cor [illegible] vicinus, & fieri debuit cum [illegible] arteriis [illegible] copiosior sit quam qui [illegible] venae cavae consumatur, & [illegible] ad minores non feratur venas. [illegible] id fieri [illegible] est, quod ligata vena cava prope cor non [illegible] tantum, sed [illegible], omnemque [illegible] habet sanguinem, non [illegible] tantum cordi [illegible].

Quia alimenta non Cor quoque videtur plus sanguinis in arteriam [illegible] infundere quam [illegible] hepar saltem non [illegible] aliquot [illegible] possit. In pluribus enim sumus experti, qui [illegible] hora plures quam [illegible] edere. Co[illegible] autem

quam

quamvis non est plane sanguineum, singulis pulsibus aliquid excernit; ligata enim prope cor arteria aorta, inter cor ligaturamque [illegible] aperiamus arteriam, [illegible] per foramen singulis pulsibus aliquid exire [illegible] ubi prorsus cor [illegible] tam [illegible] pulsibus aliquid [illegible] quod tam parum [illegible] corde [illegible] quod [illegible] fortem posset moveri & per [illegible] foramen exire.

tantum sanguinis suppeditat, quantū cor crassit.

Ab[illegible] ad cordis mucronem, & eo de[illegible] [illegible] venas [illegible] plenae non essent, singulis [illegible] quod [illegible] quod & cap. [illegible] notat *Harveyus* [illegible] & per medium [illegible] corde singulis pulsibus aliquid [illegible] non [illegible] [illegible] animal, [illegible] parte [illegible] sanguis & quasi pelliculam [illegible] ut non [illegible] posset effluere. Et certe aliquid semper exire [illegible] corde [illegible], cum in eo semper cor fiat angustius, ut postea constabit.

Quantum autem [illegible] quod singulis pulsibus è corde exire [illegible] possimus hoc [illegible] possumus, è corde [illegible] per [illegible] sanguinis effu[illegible] [illegible] putamus [illegible] [illegible] animal plus quam in sano [illegible]. Et [illegible] quae videmus [illegible] [illegible] in homine sano [illegible] non adversabimur, qui [illegible] corde [illegible] pulsibus in homine in aortam [illegible] est [illegible].

Singulis fere cor pulsibus fere semuncia.

[illegible] tantum semunciam esse, cum cor 3000. una hora pulset & [illegible], singulis horis plus quam decem sanguinis libras cor transibunt, quantum non comedimus, nec hepar potest cordi suppeditare.

Adeo ut omnino necesse sit, cum qui semel cor transiit sanguinem iterum in cor fluere & ex eo in arterias redire. Atque ita *motum quendam sanguinis esse quasi in orbem*, à vena cava in cor è corde in arterias, ex arteriis in venas a quibus iterum in cor & arterias deferatur.

Adeo ut motus sanguinis fit in orbem.

[illegible] ego satis mirari non possum tot retroacti[s] seculis, hunc sanguinis motum incognitum fuisse, cum ejus vestigia nec levia *indicia apud veteres* inveniam.

Hic sanguinis motus non fuit incognitus veteribus.

In [illegible] operum Hippocraticorum Auctor *lib. 1 de victus ratione*, tres calori nostro & humori circuitus tribuit, quibus introrsum extrorsumque à variis partibus moventur.

Hippocrates in medio libelli *de ossium natura*. *Vena*, sub quibus & arterias complectitur, *per corpus*, inquit, *diffusa*

Hippocrates. Edit. Foesij p. 144.

spiri

spiritum, flexionem & motum exhibentes, ab una in alias & ab aliis in unam permeantes. Harum autem una unde exordium sumat & ubi desinat non satis mihi compertum est. Circulo enim facto
Pag. 677. *principium non invenitur*, quem sententiam eum posuisse in distributione humorum intelligere, examinanti locum patebit.

Pag. 123. Ut & in fine libri *de natura humana*. *Crassae venae sibi mutuo alimentum subministrant, interna ex externis, & externa ex internis.*

Et manifestius Auctor lib. *de Alimento*. *Omnium quae nutriunt unum est principium, unusque omnium finis, & idem finis & principium*, [illegible] *καὶ τροφὴ ἐκ ῥιζώσιος ἐς τὴν ἐσχάτην ἐπιφάνειαν* [illegible] *ἀφικνεῖται. ξύρροια μία, ξύμπνοια μία, ξυμπαθέα πάντα. Alimentum a radicibus in pilos, in ungues, & in extimam superficiem ab internis partibus pervenit, ab externis partibus alimentum ab extima superficie, ad intima pervenit. Confluxio una, conspiratio una, consentientia omnia.*

Diogeni Apolloniatae. Ab hac quoque opinione non alienus videtur *Diogenes Apolloniata*, apud Aristotelem 3. hist. animal. cap. 2. *Crassissimus sanguis a partibus carnosis ibus exsugitur, qui vero redundat in has loca*, venas subit et majores, *tenuis calidus & spumosus fit.*

Platoni. Imo quae à *Platone* de sanguine in *Timaeo* traduntur, motus huic opinioni quam commode conveniunt.

Aristoteli. Ipse *Stagirita* non obscure in hanc pendere opinionem potest videri, lib. de Somno cap. 3. *Non omnis impotentia sentiendi somnus est, sed ea solum quae a vapore qui comitatur alimentum, quod enim rarefactum est, quadamtenus attollitur, deinde regredi & refluere instar Euripi necesse est. Nam animantis cujusque calidum in sublime natura fertur, ubi vero ad loca superiora ventum est, mox universum reciprocat ac descendit.*

Qui hos consecuti sunt scriptores, non sat sanguinis motum circularem, aut [illegible] obscure illum proposuisse [illegible] ea quae praecedentes tradiderant [illegible] [illegible] Et cum [illegible] non sufficeret [illegible] Graeci, ut & Arabes & Latini [illegible]
Sed hoc secreto datum [illegible] sanguinis [illegible]
Quod vero accommodatis praeter omnia Venarum valvulis [illegible]

[illegible] ex valvulis [illegible] tur, quo [illegible] minimum [illegible]

[illegible] per [illegible] portio [illegible] *per venas* [illegible]

[illegible] fluxu per [illegible] vasa breva [illegible] venas a [illegible] per ramum venæ portæ [illegible] licum [illegible] per ramos arteriæ celiacæ, qui [illegible] venis [illegible] per venas [illegible] & [illegible] vasa brevia arterio a & venosa, arteriæ celiacæ, venam [illegible] ramulos [illegible] que [illegible] ad [illegible] venam [illegible] vadens per [illegible] vasa brevia a ventriculo & à liene [illegible] per arterias emulgentes ad renes, per venas emulgentes ad venam cavam, per arteriam [illegible] coronariam in venam, et vena cordis coronali in venam cavam [illegible] per arterias [illegible] in pleuram, [illegible] per venas [illegible] & [illegible] venam cavam. Inven[illegible] autem [illegible] partes [illegible] Cavam autem [illegible]

In capite autem & collo [illegible] ad cor [illegible]

FIGURÆ EXPLICATIO.

A A A A. *Abdomen Canis apertum.*

B. *Diaphragma.*

C C C C. *Omentum versus thoracem inversum, quo interiores partes magis visui expositæ forent.*

D D D. *Lobi tres hepatis nonnihil dextrorsum moti.*

E E E. *Particulæ pancreatis discissi, quo sequentia vasa venirent in conspectum.*

F. *Ren sinister suo involucro tectus.*

G. *Pars sima Lienis superior, una cum adjacente pinguedine.*

H. *Media lienis pars, circa quam vasa inferuntur.*

I. *Infima lienis pars.*

K K K K. *Intestina deorsum mota, quo vasa sequentia in propatulo forent.*

L L L L. *Mesenterium.*

M M. *Arteria splenica.*

N. *Pars venæ splenicæ trunco venæ portæ annexa, à ligatura detumescens.*

O O O. *Pars venæ splenicæ & ejus tres rami inde orti, qui lieni inferuntur, & à ligatura admodum intumescunt.*

P P. *Arteria mesenterica sinistra.*

Q. *Portio venæ mesentericæ sinistræ, trunco venæ portæ proxima, à ligatura detumescens.*

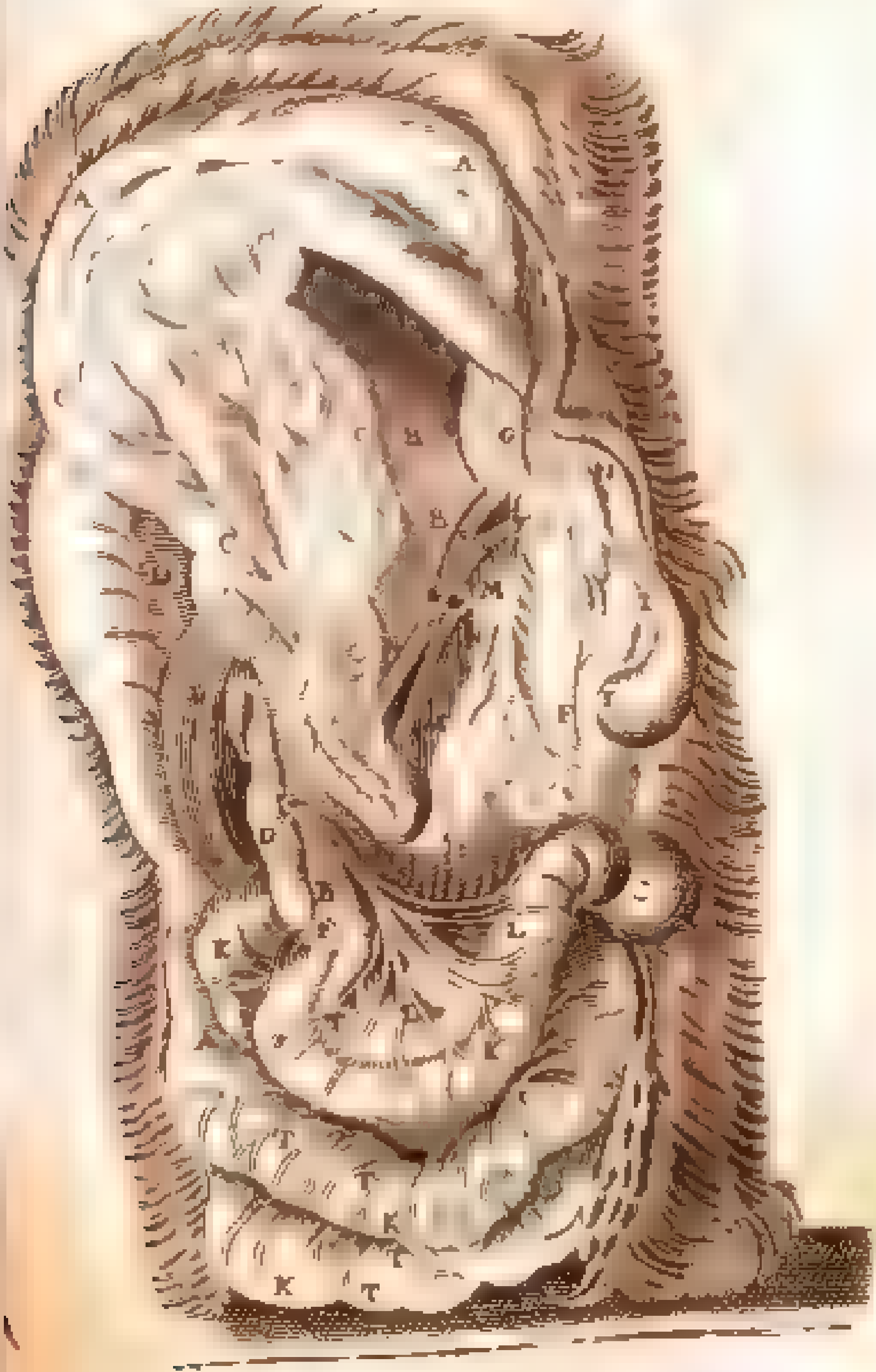
R. *Inferior pars venæ mesentericæ sinistræ jam in ramos dividenda, à ligatura intumescens.*

S S S. *Venæ mesaraicæ ideo pleniores & magis tumidæ, quia vena mesenterica ligata est.*

T T T T. *Reliquæ mesaraicæ, quæ non ita tumidæ, quia earum truncus non est ligatus.*

Sed quomodo ad jugulares venas veniat, definire nō possumus, cum ob eiusq; duritiem vivum accurate descindere cerebrum nō licuerit, quia animal interea expirabat; credibile tamen est per arterias carotides & cervicales ad quatuor cerebri sinus fluere, ea enim ad illos sinus usque perveniunt. Retulerunt quippe in his viri doctissimi *Fr. Sylvius* & *Fr. Van der Schagen* retractā illā fibrosā substantiā, quæ nō cerebro concreta in venis arteriisque cadaverum invenitur, eam ubi in carotide arteria retraheretur, motum aliquem usque in tertium cerebri sinum ostendisse. & certe cum è sinubus per jugulares sanguis ad cor refluat, nō possunt eum aliunde sinus quam ex arteriis accipere. An autem arteriæ immediate eum in sinus infundant, an vero in ramulos qui a sinibus oriuntur, non ita obvium est videre, quia arteriæ ab

illis



[illegible]bis ramulis difficulter distingui possint, [illegible] unicam tantum tunicam quoque arteriæ habeant [illegible] [illegible] arteriis [illegible] sanguinem [illegible] [illegible], quod ob evenit, vasa [illegible] quibus [illegible] maxima [illegible] esse in exortu.

Etiam in fœtu Ita [illegible], *in fœtu* vero paulo alia videtur esse circulatio, [illegible] Ex utero [illegible] ob-[illegible], [illegible] umbilicales ingreditur, quæ ex [illegible] [illegible], sed venam umbilicalem intrat, à qua in hepar, venam cavam, & dextrum cordis [illegible] imperfectum [illegible] cum [illegible] patentes [illegible] [illegible] & ad arteriam venosam dimittere, quare [illegible] vena arteriosa [illegible] peculiarem [illegible] in

Per peculiares ductus. aortam vadit: & quoque per peculiare venæ cavæ [illegible] men, arteriam venosam ingressus, auriculæ cordis sinistræ ejusque sinistro ventriculo [illegible]. E sinistro cordis ventriculo, non aliter ac in è vena arteriosa, arteriam aortam ingreditur: ut in fœtu natura duobus ventriculis pro uno utatur [illegible] [illegible] calo [illegible] siccus esse deberat, [illegible] sanguis [illegible] adimeretur [illegible]. Ex arteria [illegible] & [illegible]. Ex arteria aorta sanguis [illegible] umbilicales vadit [illegible] [illegible] reliqua [illegible] rectum spectat [illegible] & [illegible] Ex arte[illegible] [illegible] [illegible] placentam, [illegible] venis, [illegible] anastomosi [illegible] [illegible] & per eas anastomoses [illegible] venam [illegible] sus toto [illegible] [illegible].

Transit autem ex Arteriis in venas, Hæc vasa sunt per quæ sanguis & a corde & ad cor fluit. A vasis autem *arteriarum in venas* [illegible] ratione [illegible] mo facillime & frequentissime *per Anastomoses*, [illegible] [illegible] venis [illegible] Anastomoses magnæ [illegible] & in majoribus vasis [illegible] hepate. [illegible] Anastomoses [illegible] [illegible] *Bessleru*, arteriæ aortæ in [illegible] annotat, sed nec in humano [illegible] [illegible]

Per Anastomoses. [illegible] est [illegible] invenire. Quare neque [illegible] [illegible] [illegible] & in locis [illegible] [illegible] amputatis [illegible]

Et per carnes sanguinis [illegible] motu [illegible] arteriis in venas fieri. Secundo & [illegible] ex arteriis *per ipsam* [illegible] *carnem* in venas [illegible] videmus [illegible] secta vena [illegible] dum materia [illegible]

inflamma

inflammat [illegible] extravasatus sanguis è [illegible] esse par-ciorem tenuioremque existimaverint.

Ut [illegible] *sanguinis motus* sit, & per qua[illegible] *qualis sit* & quomodo peragatur. *Et motus ille sanguinis.*

Sangu[illegible] a corde in arterias, ab arteriis in venas, a venis ad cor *esse continuum* observavimus; nec ul-[illegible] Et certe cum is [illegible] & [illegible], [illegible] perdu-[illegible] locum [illegible] tam, continuum esse. *Est continuus:*

[illegible] & com-[illegible] liberata [illegible] sanguis moveri. *Celer,*

[illegible] a corde [illegible] per Anato[illegible] *hora quadrante* [illegible] cor novum posset sanguinem suppeditare. *Ut totus ille circuitus hora quadrante absolvatur.*

[illegible] quare singulis horæ quadrantibus [illegible] paroxysmus [illegible] vel tertio, vel quarto die, *Nec aliud morantur paroxysmi febrium intermittentium.*

ut

in parvula vasa regurgitans aut effumans, paroxysmum faciat.

Aut continuarum. In continuis febribus, quarum materia in vasis majoribus hærere putatur, difficilius est causam dicere quare singulis circuitibus paroxysmus non fiat, videmur tamen eandem dare posse, quam virgo dant causam, quare continuæ non continenter æquales videantur, quod etiam materia cordi satis propinqua sit, tamen citius paroxysmum non faciat, quam certum putredinis acquisiverit gradum, & cum paroxysmum tamdiu durare, usque dum putrida ea materia sit evacuata quæ cor tangit, aut ei suos fumos [illegible]. Verum non arbitror quenquam ob causam quare paroxysmi febrium certis diebus redeant, quæ prorsus & abstrusa & ignota est, motum sanguinis velle negare satis celerem esse, qui est manifestus.

Hic motus quoque est vehemens a Præter celeritatem, sanguis in motu & *vehementiam habet*, quæ ex iis apparet quæ diximus de duritie & tensione quam arteriæ & venæ ligatæ acquirunt nihil enim a tenui liquidaque materia in summam duritiem tendi potest, præsertim sursum, nisi vehementer in id impellatur retineaturve, sed ea motus vehementia maxima est prope cor, à quo sensim fit minor, adeo ut extremæ arteriolæ non pulsent nisi major solito sanguinis impulsus accedat, ut id in febribus fieri observamus. Quare & videntur venæ non pulsare, quod is impulsus etiam in hoc fit in iis, quam in missis arteriolis; & quod venæ Anastomosi arteriis junctæ ubi ab iis abeunt, in plures se ramulos quam arteriæ dividantur; bi enim in plura brachia [illegible] ducuntur, motus ille impetus imminuitur. Quare ubi quædam venæ occluduntur brachio, vel a re comprimente, ut in quibusdam tumoribus, vel ab aliquo obturante, ut in varicosis gravidarum, animadvertitur denuo impetus [illegible] sua recabente sanguine; plerasque enim palpitationes & venæ pulsare conspiciuntur [illegible] in partibus, a flatibus provenire credicas, [illegible] quam venarum pulsationes esse, in venis transparentibus per cutim, non raro nobis licuit observare.

Eiusdem tamen Celeritatis:

Eius eiusdem vehementia in arteriis & venis? Quia autem motus vehementior in arteriis quàm in venis est, videtur *prima fronte in arteriis* quoque *celerior* [illegible] *in venis* esse, non aliter ac hominibus, equis, aliisque animalibus [illegible] quæ magno se conatu movent, male sæpe videntur plus promovere. Etenim per arterias protrusus sanguis non omnis potest Anastomoses transire, quod e lato in angustum [illegible] veniat, unde accumulatur in arteriis, eæ dilatantur, [illegible] aliquantulum persistunt, quare dimidio a dilatatione

tionis

[illegible] totoque quietis tempore, perpetuum ille impetus ad motu[illegible] tacit[illegible], qui motus interea expe[illegible] per venas [illegible] a[illegible] & per plures vias pe[illegible]. R[illegible] in hoc [illegible] motu ce[illegible] esse debere nisi quantum he[illegible] e cavo [illegible], atque [illegible] per [illegible] aut alias tandem cor humore [illegible]. Quod & [illegible] sensus confirmat, toties [illegible] pulsat vena cava, toto illo tractu ab hepate in jugu[illegible] animadvertitur [illegible] & [illegible] e corde [illegible], sed de illo mox [illegible] diceemus.

[illegible] tamen a [illegible] sanguis *celerius movetur, quando cor [illegible]*, [illegible] debeat, quando cor [illegible] & post [illegible]. Imo & in [illegible] venis [illegible] pulsante co[illegible] vehementior est & cele[illegible], quod [illegible] ita ut & [illegible] quando in brachio vena seca[illegible], [illegible] non admodum distenderentur ve[illegible] venarum palpitationes non viden[illegible], quam quod a relabente sanguine, [illegible] venas, cum sanguis impetu [illegible] non [illegible] venam attollat, quae concidat iterum [illegible] aut vena transfluente san[illegible] sanguis transitum.

[illegible] autem sanguis [illegible] qui per arterias [illegible] ad [illegible] venas [illegible], cum non [illegible] defertur, sed cum [illegible] ad [illegible] *qui ex aliis venis* [illegible] partibus distribui [illegible], si semper novum [illegible] habeant [illegible] maxi[illegible] ad [illegible] crescunt plan[illegible] non [illegible].

H[illegible] Et quoque, cum [illegible] *quam moventur vitales spiritus.*

Animalium [illegible] saepe [illegible] inda[illegible] potuimus [illegible] quam in mus[illegible] in latum profundumque di[illegible] & [illegible] tremere & palpitare. Nervi [illegible] ligati a ligatura nec tument nec distenduntur, & [illegible] non alium motum exhibent quam quod [illegible] se contrahantur. Ligare autem nervos sexti par[illegible] per thoracem libere vagan[illegible], res perquam facilis existit.

Motus vero *Chyli* per venas lacteas manifestissimus est,

Non

Sed mo[illegible] ferme [illegible] pulsatio cordis.

Unde sanguis porro non eadem semper via vadit.

Cum sanguine moventur vitales spiritus.

Animalium [illegible] motus per nervos observari non potest.

Sed facile chyli motus [illegible]

[illegible] per venas [illegible] Quomodo is fit?

Non est autem ut sanguis continuus, cum non semper suppetat [illegible] vas. [illegible] per lacteas venas [illegible] ipso sanguine incedit, & ligatæ venæ [illegible] causam nec [illegible] [illegible] verbus [illegible] [illegible] obstaculum chyli motui [illegible]. Quod vero ligatæ non intumescant in ductum [illegible] [illegible] motum [illegible] [illegible] deberet, non is in motu impetus requireretur.

Causa autem qua hic moveatur sanguis.

[illegible] motum *motum cordis* & primum *sanguinis* inquiramus.

Q[illegible] [illegible] virtute ita movebitur sanguis, vel [illegible] advectionem, [illegible] [illegible] referemus.

Non est vis quadam insita

Propria virtute eo modo moveri sanguinem, nec in sanguine [illegible] nec in corpusculis [illegible] observamus, [illegible] momento corruptum durum est [illegible], nec [illegible] talem spontaneum motum [illegible] videre. Quod autem *Harvejus* cap. 4. annotat [illegible] auricula, motum in ea [illegible], quoque, ut & in [illegible] corde [illegible] motum in auricula [illegible] sanguinis a vena cava [illegible] corde ad auricula, ut statim [illegible].

Nec vehitur sanguis a spiritibus

Vehi hic sanguinem a [illegible] potest [illegible] compositam & in [illegible] sanguinem vehere quem hic deorsum [illegible] & [illegible] videmus.

Quare reliquum est ut vel trahatur sanguis vel [illegible].

Nec effunditur sanguis ob solam rarefactionem.

Pro [illegible] sanguinem [illegible] [illegible] rarefactum [illegible] cordis immensum rarescens, majorem locum exposcat, ideoque cum cor [illegible] & [illegible] cumque [illegible] corde [illegible] venalem arteriosam arteriam [illegible] impetum, ut omnes [illegible] arterias & [illegible] pulsare. Sunt autem [illegible] hoc [illegible] afferunt, quod [illegible] sanguine [illegible] animal [illegible] calefiat [illegible] pulsare [illegible]. Sed [illegible] fieri non posset, [illegible] a calore vegetior factus, [illegible] causæ posse inservire quæ in corde pulsum facit non abterat calefactus [illegible] sectione [illegible], [illegible] tamen [illegible] est, [illegible] motus videtur. [illegible] rarefactio a tepore quodam in corde est, [illegible] ob rarefactionem sanguinem e corde non ex [illegible] validus

[illegible] cor [illegible] parte [illegible] magna [illegible] evidens est, sanguinem a parte propelli.

[illegible] omnibus se motum videatur.

[illegible] *in dextram cordis au-* [illegible] cava [illegible] non fieret, quia cava [illegible] & [illegible] vena cava, & [illegible] cavam [illegible], & [illegible] Quare & [illegible] fibras accepit, quas [illegible] cava possunt [illegible] Motus [illegible] cavæ [illegible] in vivis [illegible] observavimus [illegible] hepate & a [illegible] in cor [illegible].

Sed pel-litur a vena cava in auricu-lam.

Auricula [illegible] *in dextrum cordis ventriculum* [illegible] & [illegible] momento [illegible] ad [illegible] contractio- [illegible] in cor [illegible], quod & notat [illegible] *cap.* 4.

Ex au-ricula in cor.

Ita quidem [illegible] sanguis ad dextrum cordis [illegible] & in auricula [illegible] & [illegible] Ita [illegible] parte [illegible] quem accipiunt internas [illegible] autem [illegible], trahi debet quo pars cum sanguine [illegible] est [illegible], positione etiam [illegible] amandatur, ut optime *Galenus*, ut solet omnia [illegible]. Tractio autem in hac non [illegible] sed etiam remotioribus, ut omnes partes [illegible] alimento [illegible]

Trahi-tur in cor quo-que.

Sed

Sed an non quoque cor, qua dilatatur, trahit, metu vacui ut solemus appellare? Non est verosimile, quia in ejus dilatatione nullus metus vacui esse potest, ut mox fiet evidentius.

Eadem causa motus in sinistrum ventriculum est.

Ut sanguis ad dextrum *cordis ventriculum*, ita quoque ad *sinistrum* venit, nisi quod impulsionem sanguinis concidente pulmone, ex arteria venosa in sinistram auriculam non tam validam quam è vena cava potuerimus observare; aliquam tamen manifesto est.

Contingitque utroque eodem momento.

Impulsio autem in utramque auriculam & in cordis utrumque ventriculum eodem momento accidit: nisi in morientibus, in quibus, aliquando observavimus non eodem tempore utramque auriculam, aut utrumque ventriculum pulsare.

Ubi autem ita sanguis in ventriculos cordis pellitur, cor nullum oculis manifestum motum habet, sed imposito cordi digito aliquid intrare in cor sentimus & cor plenius fieri: quod & observavit *Harveus* cap. 4. Imo septuagies aliquando centies pulsasse auriculam observavimus, antequam cordis sequeretur motus.

Ut jam habeamus quomodo sanguis in cor moveatur. Videndum nunc quomodo moveatur in arterias.

E corde in arterias sanguis pellitur, dum cor constringitur.

In Arterias sanguis pulsione movetur facto enim in arteria foramine dum cor se constringeret, exire sanguinem vidimus, & abscissa a corde aorta aut vena arteriosa cum cor constringeretur sanguinem effundi: dissecto cordis mucrone eoque erecto expelli sanguinem & è corde excluso dissecto corde medio transversim in systole sanguinem expelli, nec unquam in diastole exire vidimus. Quod autem quidam in vivis dissectionibus in dilatatione vidisse exire sanguinem affirmant, in eo tamen illos falsos arbitror, quod dilatationem eam esse existimaverint, quae revera est constrictio: quod insignis ille Anatomicus *Columbus* quoque notavit, l. 14. de re Anatomica.

Etenim in *motu cordis*, oportet ejus constrictionem, quietem, & dilatationem exacte distinguere.

Ratio constrictionis cordis.

In *constrictione* cordis sive systole, mucro cordis accedit ad basin, ideoque nonnihil elatior fit. Et in iis animalibus, quibus aorta non basi cordis, sed versus medium nonnihil inseritur, ut in canibus, anguillis & similibus, basis quoque cordis accedit ad mucronem. Latera autem cordis quae costas dextras sinistrasque spectant, propius ad se mutuo veniunt, adeo ut si alterutri lateri mucronem abscinderes [illegible] appendeat, in constrictione ad [illegible] latus, & quasi in locum suum redibit. Latus autem cordis quod sternum specta-

[illegible] retroflexa, & [illegible] [illegible] [illegible] Anatomicus *Riolanus* quoque observavit, lib. 6 [illegible] Anthrop. cap. 12.

Ex [illegible] autem cordis motum quem jam descripsimus, re[illegible] [illegible] quem [illegible] motum dicet, ventriculorum cavitates [illegible] [illegible] fieri [illegible] ventriculos ad di[illegible] [illegible] eam ventriculi cavitatem reliquisset majorem.

Hoc [illegible] [illegible] [illegible] dissectis cordis ventriculis in vivis observavimus. *Quæ fere [illegible] brarum.*

[illegible] [illegible] mus, tumere & indurescere musculum temporalem sentimus. [illegible] [illegible] *Meibomius* [illegible]

[illegible] [illegible] [illegible] cartem aortam in basi non habente, dextrum vero [illegible] [illegible] costas [illegible] [illegible] atque tum rotam [illegible] & [illegible] *A con[illegible] strictio[illegible] ne cor ad na[illegible] in novi[illegible] flantis red[illegible]*

N[illegible] autem superius illud [illegible] protsus hoc [illegible] ad [illegible] cor [illegible] dilatatur [illegible] sanguis & [illegible] confirmat [illegible] cor [illegible] arteriaque venosa nov[illegible] in cor propellitur, & qui in eo continetur [illegible], tum superius latus [illegible] & [illegible] nec [illegible] cordis dilatationem præter hanc est observare.

Atque [illegible] [illegible]

[illegible] per quam cognoscitur quædam palpitatio, [illegible] tertia [illegible] & [illegible]

Adeo ut [illegible] cordis & [illegible] reliquarum partium [illegible], quæ ab eo quod [illegible] expulerit ad [illegible].

Hanc [illegible] pulsantes observ[illegible] cor [illegible] & [illegible] quæ [illegible] ventriculi [illegible] retrahitur ad basin obliquum motum facit.

E majoribus in minores arterias sanguis [illegible] Sed redeamus in viam, [illegible] quomodo [illegible] in *arteriis cordi vicinis* [illegible] arterias [illegible] ad ligaturam [illegible] & [illegible] summam durities.

[illegible] tamen [illegible] cor propulsus [illegible] venas.

Trahitur tamen quoque. Tum [illegible] omnes arterias sanguinem verosimile est, quo [illegible] partes conveniunt sanguinis [illegible].

[illegible] ratione [illegible] arterias [illegible] esse [illegible] & [illegible] arte[illegible] & [illegible] in carne, eadem ratione [illegible]

pusat

[illegible] a quo [illegible]
[illegible]
ferandum exemplum nuper in [illegible]
Joannae [illegible] vidimus, cui [illegible]
[illegible]
[illegible] sanguinis ab arteria [illegible].

[illegible]

[illegible] Et cum nemo non novit quanta vis sangui[illegible] tes [illegible] vel saltem non remotiores queant pulsare.

[illegible] fieri potest ut languente prorsus animali ob [illegible] [illegible] Ita non raro vidimus [illegible] dum vel nullum exhibebant [illegible] [illegible] ulcera cum talam [illegible]

[illegible] ab his peragi pulsus posse.

Ddd 2 Solet

Sciret tamen [illegible] ad operationes suas instituendas [illegible], quam nobis quidem necesse [illegible] quia non semper ejus possi[illegible] secreta [illegible] mari. Ita & hic [illegible] à *Galeno* indicia observata [illegible] praeter eam dilatationem quam arteriae ab impulsu sanguinis [illegible] propriam dilatationem moli[illegible]. Omnis [illegible] quoque [illegible] [illegible]

Indicia tamen [illegible]

[illegible]

[illegible] vicinum debent, & [illegible] vicinam, atque ita porro [illegible]

[illegible] ad movendum sanguinem operas con[illegible].

Pulsus [illegible]

Hinc quoque apparet [illegible] sanguinis tantum [illegible] a corde [illegible]

Atque [illegible]

Ex arteriis in venas [illegible]

[illegible] autem in venas [illegible] que venam [illegible] sanguis quoque [illegible] vis enim in vivis ligata vena, versus cor [illegible] vero [illegible] a corde [illegible]

Et autem [illegible] contrahere, ligata [illegible] vena non [illegible] in [illegible] quae [illegible] [illegible] bus venae constringuntur.

[illegible] partibus. Et [illegible].

Arbitrantur tamen quidam [illegible] sanguinem accipiant, sed [illegible] quod [illegible] [illegible] argumentum [illegible] tamen [illegible] quam tractione accipere, quod [illegible] venae [illegible] [illegible].

[illegible] vena cava [illegible] quando corpori [illegible] et [illegible] ut cœtera omnia debeat suppeditare.

[illegible] alis sanguinis fiunt. [illegible] etenim nobis [illegible] chyli concoctum [illegible] *Ita quoque post [illegible] per intestina.*

[illegible] non trahit [illegible] sorbere cœpit, unde pressi chyli aliquid venas lacteas [illegible] detinet, [illegible] per angulam [illegible] venas lacteas [illegible] colat atque pre- [illegible] sanguis constit- [illegible] quæ crassis, certa se- [illegible]

[illegible] in venas portæ, in hepar, [illegible] ad vene cavæ motor, ligatura [illegible] *Per venas lacteas*

[illegible] intestinis lacteisque chylum [illegible] *Et quoque tribuit.*

Chylus in meso mesenterico, venæ portæ, vena cava [illegible] causa, quam [illegible] ad sanguinem [illegible]

[illegible] portas etiam per [illegible] [illegible] per quas facile sanguis in intestina [illegible] et incommodo poterat via [illegible] obviam [illegible] *Quare non per venas meseraicas.*

[illegible] commoditates haberet, quamvis ha- [illegible]

[illegible] contrarium quoque [illegible] partes deferuntur, & omnem suum thesaurum [illegible] *Motus sanguinis contrarius in utum part II.*

 alimen

FIGURÆ EXPLICATIO.

A. *Vena mesenterica vulgo a porta ramus, & arteria* [illegible]

B. *Vena* [illegible] *per* [illegible] *intestina*

C. *Mesenterii portionem, una etiam nervorum mesaraicorum per eam distributionem signat.*

[illegible]

[illegible]

F. *Intesti num duodenum.*

G. [illegible]

I. *Vena & arteria fundum ventriculi perrepentes*

K. *Omenti pars.*

L. *Glandula in mesenterii principio, quam* [illegible] *appellat* [illegible] *qua rami venarum* [illegible] *non* [illegible] *sunt, ut hic designantur.*

M. [illegible] *lactea in ipsis intestinis à ligatura intumescentes*

N. [illegible] *Lactea in* [illegible] *à ligatura tumida.*

O. *Valvula in venis Lacteis.*

P. *Constrictio intestini superius.*

Q. *Constrictio* [illegible] *inferius, qua* [illegible] *constrictionibus chylus in venas lacteas exprimitur.*

a[illegible] possint [illegible] & robur facit

Et ut [illegible] [illegible] *quitur.* [illegible] con[illegible] mergi[illegible] [illegible] servetur [illegible]

Vitam capiunt, ut moveant ut aqua [illegible] & [illegible] esse ver[illegible] quod [illegible] vasis licet observare.

Ut perficiatur sanguis. C[illegible] co[illegible] & a[illegible] eius perte[illegible] c[illegible] q[illegible] corpore corde calidior, nulla minus cal[illegible] absentur. Unde quædam quasi circulatio con[illegible] f[illegible] per[illegible] à frigore conden[illegible] ea potest tem[illegible] ad pristina[illegible] à qua[illegible] tractu temporis [illegible] pervenit in qua a frigore con[illegible] [illegible] cordis vacua, atque [illegible] ad generat [illegible] vira, [illegible] evadit

Hanc ob [illegible] sanguis [illegible] movetur, sed an non pro-

Sanguis qui ad nutriendas partes defertur non movetur in orbem.

præterea alicubi alium motum habet [illegible] *sanguis recta in carnem* defertur, ut humorem [illegible] tum rorem [illegible] vena [illegible] transire [illegible] hos agi [illegible] partibus [illegible] & [illegible]

[illegible] quod ex arteriis in carnem [illegible] [illegible] accipere humoris partem [illegible] & [illegible] tenuiorem humoris partem ad [illegible] [illegible] in valvis [illegible]

Nec alium sanguinem [illegible]

[illegible] sanguinem è corde delatum [illegible] & per arte[illegible] ad cor redeat. Quo[illegible] mechanica po[illegible] [illegible] Hic contra sensus observant [illegible] ad corpu[illegible] [illegible] Valve[illegible] [illegible] Ea quippe [illegible] contractio [illegible]

Nec in animi affectibus.

A[illegible] sanguinem [illegible] per venas à corde per arterias [illegible] [illegible] per arterias [illegible] & ad cor moveri.

Sed præ- [illegible] tamen humores aliam, quam quem modo de [illegible]

d[illegible] ipsi [illegible] motum habeat, dum humores lev[illegible] sua, vel [illegible] impetu sursum [illegible], vel [illegible] gravitate sua deorsum descendunt, ut in varic[illegible] est manifestum. Occlu[illegible] quo-[illegible], aliam [illegible] aperire coguntur. [illegible] aliquoties in vasis pectoris vertegatum san-[illegible] quæ [illegible] & a corde moveantur [illegible] eundum [illegible] non diu [illegible], nec eo motu unquam sanguis cor ingressus est.

ter na-tur am aliun est.

[illegible] *Bartholine*, mihi bi arbitror de [illegible] respondisse. In quem inquisive, scrupolo-[illegible] humorum naturam & eorum defluxum [illegible] sanguis generatur [illegible] a quibus [illegible] judicaturum, quomodo pla-[illegible] si cognitum haberem cujus venæ [illegible] sive potius evacueret partes, & quas perrisi [illegible] antequam [illegible] are. Occurrebantque innumera per totam Me[illegible] quæ [illegible] notum cog[illegible] habere.

[illegible] in hanc opinionem venerunt [illegible] asserere. Medicos [illegible] hunc sanguinis & chyli motum [illegible] hujus motus [illegible] possum con[illegible] quorum disparitate facile in diversas sententias imus.

De fi[illegible] autem experimentorum dubitare, *Bartholine*, non potes, quæ co[illegible] non parvam partem ipse vidi [illegible] Medicinæ Doctores doctissimi tibi non [illegible] *Joannes van Horn*, *Ahasuerus Schi[illegible]* [illegible] accuratissimi, & viri [illegible] *Francis[illegible] vander Schagen*, & *Antonius Vesche-[illegible]* [illegible] experimenta & [illegible] hoc nomine pla-[illegible]. Vale, [illegible] *Bartholine*, & me ama. [illegible] Lugd. Batav. [illegible] Kal. Octob. Anno ClƆ IƆ CXL.

ALTERA EPISTOLA DE MOTU SANGUINIS, AD EUNDEM.

Harveo fi[illegible] mo[illegible] occasio.

T[illegible] st [illegible] cum no[illegible] [illegible] [illegible] & A[illegible] [illegible] [illegible] s [illegible] spondere, [illegible] aut sibi [illegible] [illegible] M[illegible] [illegible] [illegible] [illegible] V[illegible] [illegible] [illegible] vertit ex[illegible] [illegible] [illegible] de motu co [illegible] [illegible] sanguinis [illegible] [illegible] [illegible] [illegible] [illegible] re. [illegible] tempore non [illegible] [illegible] & [illegible] in auctore desidero quod [illegible] [illegible] [illegible] [illegible] de omni causa d[illegible] cupiebat [illegible] [illegible] debebat [illegible] sed [illegible] poterat [illegible] [illegible] est, nam [illegible] v[illegible] [illegible] [illegible] [illegible] [illegible] natus est observat[illegible] [illegible] [illegible] [illegible] posset [illegible] [illegible] [illegible] Rogerio Drake [illegible] [illegible] [illegible] [illegible] des Me[illegible] D[illegible] [illegible] & [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] nos docent [illegible] [illegible] [illegible] [illegible] [illegible] noctis [illegible] venæ sectio de qua [illegible] [illegible] [illegible] [illegible]

Objectionum solutio.

In vena sectione Venam à ligatura tumere.

Non præ dolore.

Non à contractione venæ.

V[illegible] secat [illegible] C[illegible] [illegible] vinculum brachio inject[illegible] [illegible] qua vena in tumorem attol[illegible]. In tumorem atto[illegible] [illegible] vena, non quæ circa ligaturam cordi propinqua, sed quæ ultra ligaturam à corde est remota. [illegible] autem tumoris causa, non est dolor, quo vinculo constricta pars afficitur: dolor enim sæpe exiguus aut fere nullus est in parte quæ [illegible]. Et vellicatione, com[illegible] actiori dolore af[illegible] [illegible] brac[illegible] [illegible] [illegible] tumentes venas, quam [illegible] [illegible] ligata [illegible].

Nec [illegible] vero [illegible] est [illegible] intumescere à ligatura, quod [illegible] venas ad ligatur[illegible] [illegible] cor[illegible] [illegible] & cele[illegible] [illegible] ab hepate [illegible] [illegible] sive atclara [illegible] [illegible] laborant [illegible] [illegible] aqua circa angu[illegible] [illegible] locum coll[illegible] [illegible] [illegible] attoll[illegible] à [illegible] [illegible] celerius [illegible]. Ligato vero brachio contrarium [illegible] non enim hepati propinquiores venæ à quibus [illegible] [illegible] venirent, sed ab hepate remotiores magis distendi[illegible].

Quæ

[illegible] quod [illegible] ligatura [illegible] hac de [illegible] nihil tam [illegible] quæ à [illegible] & vehe- [illegible] per [illegible] corpore [illegible] nihil sang [illegible] videbatur evidens è venis [illegible] fosse data via aliquid [illegible] Tantundem in venæ sectione brachii [illegible] ut vena manifesta [illegible] per [illegible]

Sed quod sanguinis motus sistatur.

[illegible] intumesceret arterias, nisi quà cor respicit, remotiori vero parte [illegible] & imminuitur, ut in vivorum dissectionibus [illegible] exploratum [illegible] venam [illegible] parte [illegible]

Neque à ligatura intumescere arterias.

Gal. 5. Meth. c. 7.

[illegible] guis ex inferioribus objectio [illegible] semper accidit, [illegible] quando certo intervallo brachium [illegible] sanguine venæ majores, loco infra

duas

Sed duabus ligaturis intumescere quare, quæ venæ, & quare?

duas ligaturas medio, è [illegible] venis [illegible] [illegible] Revera [illegible] At alte [illegible] & [illegible] ac facie [illegible] Atque [illegible] venaeque [illegible] Chirurgum duas Anastomoses ligatura [illegible] Anastomosi [illegible] [illegible]

Quare in [illegible] nafectione laxetur ligatura?

[illegible] supra [illegible] tamen laxatione [illegible] Verum potest [illegible] vena non potest venisse. Verum potest [illegible] sanguis per arterias descendere, & [illegible] compressa [illegible] [illegible] brachio saepe non [illegible] ligaturam [illegible] quem [illegible] saepe [illegible] ligaturam [illegible] Et [illegible] ad carnem [illegible] Et [illegible] brachio [illegible] saepe [illegible] [illegible] carpo [illegible] & [illegible] laxatione [illegible] sanguis copiosior [illegible] effluxerit, [illegible] factum esse [illegible]

Quare copiosius educi sanguis possit?

At [illegible] vena [illegible] ex arteriis in venas [illegible] omnes [illegible] [illegible] & [illegible] eadem [illegible] sanguinem [illegible] venis [illegible] arteriae [illegible] & [illegible] venis [illegible] arteriis [illegible] omni sanguine [illegible] est [illegible] sanguinem ad [illegible] venire, quam ab eo pellitur.

Non [illegible] tamen sanguinem [illegible] omnes venas [illegible] etiamsi aequaliter arteriae [illegible] videantur [illegible] enim vacui facilius fluit, celeriusque omnis [illegible] nihil est, quod adigere debet & propellere. [illegible] evacuatis venis sanguis, magis quam a repletis [illegible]

Et copiosior

E vena autem secta cubiti copiosior sanguis, [illegible]

[illegible] qui per Anastomoses manus venit.

[illegible] aperta sit, necessario impetu elabitur.

[illegible] ita valvulis ampliori instillatum sit, ut illae quae [illegible]

[illegible] sanguinis motum, aut ei saltem non refragari.

[illegible] quae nobis proponantur, excutiendae & [illegible] non per venas non ex arteriis [illegible] ab hepate [illegible] comprobant, quum partes [illegible] sanguinis [illegible] non [illegible] partes arteriis non ha[illegible] ab hepate non vero alibi ab ar[illegible] sanguineo ex [illegible] me-

[illegible]

[illegible] quam a manu? & quare ex arteria vulnerata non sanguis effluat. Laxata ligatura sanguis prodit, [illegible] quam [illegible] & quare? Si [illegible] [illegible] ducta. [illegible] per [illegible] & quare? Sanguinem per venas non accipiunt, hepate excepto.

scorticis cœl actisque venas [illegible] in hepar [illegible] sanguinem ab arteriis possent, quo[illegible] [illegible] Nulla tamen co[illegible] [illegible] stæ mobis esset qua Anatomici conspectus [illegible] [illegible] cœliacæ [illegible] quæ [illegible] ramu[illegible] ductus chol[illegible] [illegible] Anatomicis pro[illegible] [illegible] tem nemo ple[illegible] [illegible] è pleuræ arteriis sangu[illegible]

Brachiū ligatū quomodo in tumentem modum, & quando non intumescit?

Porro prof[illegible] ex veteris [illegible] quod ligato brachio [illegible] brach[illegible] [illegible] venas [illegible] Verum [illegible] [illegible] potest [illegible] quod non [illegible] [illegible] [illegible] potest venam [illegible] non amplius sanguine [illegible] fibi arteriarum pulsum [illegible] [illegible] anastomoses supra [illegible] venas [illegible] quid nos in Anate vidisse retulimus [illegible] horū [illegible] [illegible] brachiū, & [illegible] à copia [illegible] supra carpum [illegible] [illegible] aliquantulum [illegible] bere, Arterias [illegible] possum [illegible] & aliquando [illegible]

gun

gate manus rubrum colorem in lividum mutarunt [illegible] eo ligaturam dissolv[illegible] [illegible] nō posset, brachium [illegible]

[illegible] si venosus sanguis ex a terra venit. [illegible] molus sanguis plurimum potest à venoso [illegible]

Quemadmodum & quare venulas sanguis ab arteriis ad se ferant

[illegible] bene quidam quisque facil[illegible]

Monstrum circa arterias quomodo colligantur

[illegible] tur sanguis in uterum pellatur. Potest tamen contingere [illegible] in utero [illegible] eo motu sangui[illegible]

Quemadmodum a terra in venas in caput

OSPEDALE DELLA CONSOLAZIONE BIBLIOTECA

[illegible] quæ [illegible]
[illegible]

Quomodo noxii humores cor transeuntes non magna in eo mora adferant. [illegible] 6. loc. aff. [illegible] cap. [illegible] conc. [illegible] 2 Anat. l. 9 cap. 11. qu. 11.

[illegible] Verum [illegible] & [illegible] per [illegible]
cor transiens, cordis vi sæpe domatur.

[illegible] *circumstantia*, [illegible] Walæus tamen [illegible] nostram [illegible]

Objectiones adversus circulationem.

Sanguinem [illegible] Primo [illegible] Verum [illegible] moxque [illegible]

Nihil impedit quo minus semicircularis sanguinis à corde pellatur.

[illegible] a corde [illegible] plena [illegible] sanguinis [illegible] contra [illegible] corde [illegible] totius corporis [illegible] ut non raro [illegible] Quæ [illegible] omnes totius corporis [illegible] dilatatus [illegible] ejus scrup. [illegible] drachmam [illegible]

In fœtu quoque nihil tam impedit sanguinis motum in orbem esse.

Negant quoque in fœtu è vena cava per vasa cordis [illegible] sanguinem arteriam [illegible] intrare, [illegible] semeare quod [illegible] absurdum [illegible] venam [illegible] & [illegible]

[illegible] quantum plus potest in brachia advenire. Et [illegible] [illegible] est multo major [illegible] arteria [illegible] quam [illegible] ut [illegible] *In brutis* [illegible] *gemina* [illegible] *sunt vena atque* [illegible] *arteria quæ utque ad umbilicum cum* [illegible] *perve*[illegible] *atque* [illegible] *ingrediantur* [illegible] *ad porta* [illegible] *pertingit*, [illegible] *quorum* [illegible] *Sin* [illegible] *de humano* [illegible] *communiter, assero* [illegible] *aliquando gemi*[illegible] *arterias* [illegible] *non* [illegible], *sed* [illegible] *arte*[illegible] *atque* [illegible], *una cum* [illegible] *ad umbilicum* [illegible] *arteria in duas* [illegible] *quæ postea* [illegible] cordis unionem in fœtu factam esse, ut illac sanguis è ve[illegible] animalia aqua[illegible] Anas, An[illegible] quod sæpe sub aqua [illegible] quoque habent, quod & notat *Harveus* [illegible].

[illegible] quoque frequentes venarum arteria[illegible] [illegible] quod [illegible] [illegible] dolorque in [illegible] carnem trahatur.

[illegible] motu [illegible] [illegible] viæ constrictione accidant, quodque aqua vitæ, [illegible] [illegible] hoc modo [illegible] venas rapiatur, [illegible] [illegible] [illegible], [illegible], concoctione, dissipatione se [illegible].

[illegible] *motus sanguinis* [illegible] quoque nobis diffi[illegible] [illegible] & [illegible] vehe[illegible] [illegible] sangui[illegible] [illegible], totius corporis [illegible], & in [illegible] opinionis principes, eo se [illegible] *dum, frigoris* [illegible] *corporis contrahantur* [illegible] *appareant*, [illegible] *sanguis* [illegible] *duplo* [illegible] *quam prius* [illegible] *viderentur.*

Signum cum vena esse. *(margin)*

Etiamsi venarum arteriarumque Anastomoses sint, possunt tamen tumores oriri. *(margin)*

Sanguinem non rarefactum. *(margin)*

[illegible]

S[illegible] certam [illegible] proponunt [illegible] plo ob rarefact[illegible] [illegible] exteriorum venarum tumor posset, quod cum antea [illegible] venas [illegible]

[illegible]

propemodum esse æqualis [illegible], cum in his rarefactio sanguinis ab interna causa proficiscatur.

Nec [illegible]

[illegible] interiores venas [illegible] guis in futuros [illegible] [illegible]ores venæ pos[illegible]

Sed con-[illegible] [illegible] [illegible]coeuntes [illegible] infreq-[illegible] arte-rias pul-[illegible]. H[illegible] ipse cum [illegible] vehementer [illegible] [illegible] [illegible] canam delet[illegible] [illegible] cavitate [illegible]

[illegible] ventriculi [illegible]
[illegible]
quam fum & reveram dilatationem.

[illegible]

[illegible] in majoribus animalibus, non majores, fed minores fieri, [illegible]

[illegible] tum dextri ventriculi motum fequatur.

Non in dilatatione etiam quandoque in eis fanguis exit. [illegible]

[illegible] diftans propellitur. [illegible]

[illegible] pulfant, quo cor plane defecit, fanguis ab auri[illegible]us intrat cor, accumulatur, & quando majori [illegible]as eft, quam quæ corde contineri queat, [illegible]

e valuere, non impetu quodam, ut ad pulsum efficiendum foret necesse, sed [illegible] & [illegible] valdum motum sanguinis nisi in cordis constrictione [illegible] animadvertere.

Et à san-guine [illegible] [illegible] [illegible] [illegible].

Per venas autem [illegible] ad cor [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] & [illegible] [illegible] [illegible] [illegible] [illegible] vena [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] objecto [illegible] [illegible] moveretur.

Hoc [illegible] in venis & ar-teria possunt [illegible]. Et san-guis [illegible] [illegible].

Sed [illegible] [illegible] [illegible] venas & arterias [illegible] [illegible] de non posse nutriri. [illegible] [illegible] & fugiens [illegible] partes [illegible] mora [illegible] [illegible] tantum [illegible] [illegible] [illegible] [illegible] [illegible] motum plane [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] moveatur leniter, & [illegible] parte [illegible] [illegible] [illegible] [illegible] saluberrima deprehenduntur.

H[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ad[illegible] [illegible] recipere opinionem non possunt, [illegible] quid [illegible] [illegible] nec tempus est, [illegible] [illegible] meo judicio negand[illegible] [illegible] [illegible] [illegible] [illegible].

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] veritatis [illegible] & [illegible] [illegible] Academia Batava [illegible] [illegible] Kalend. Decembris, [illegible].

FINIS.

ACCADEMIA [illegible]

B
E
P
L

V. C.

D. GERARDO L. BLASIO

TH. BARTHOLINUS S. D.

Cum [illegible] fit editio Anatomes nostrae Novae, [illegible] procurata [illegible] placuit [illegible] quam Cl. [illegible] Stenonis, Antonii [illegible] mihi communicavit [illegible] sanguinis [illegible] Anatome No-[illegible] opere addere, & [illegible] hoc nomine, ut alia taceam, addidissem.

FIGURÆ EXPLICATIO.

Receptaculi sanguinis circulus per ventriculorum cordis separatio-nem ab invicem magis facilior redditus.

Receptaculi sanguinis Truncus communis primus compositus ex

A. *Cordis auricula dextra*

B. *Cordis ventriculo dextro.*

C. *Trunco arteriae pulmonalis*

Receptaculi sanguinis Angustia prima, ubi

D D D. *Rami sensim magis magisque divisi.*

E E E. *[illegible] angustiae [illegible] qua substantiam pulmonum magna ex parte constituunt & communicant cum radicibus vasis excretorii pulmonalis* Q *quod asperam arteriam vocant.*

F F F. *Radices sensim confluentes in truncum*

Receptaculi sanguinis Truncus communis secundus compositus ex

G. *Cordis auricula sinistra*, H. *Cordis ventriculo sinistro*

I. *Trunco arteriae per universum corpus sursum deorsumque distribuendae.*

Receptaculi sanguinis Angustia secunda, ubi

K K K. *Rami sensim magis magisque divisi.*

L L L. *Ipsa angustia in [illegible] qua substantiam renum, lienis, &c. magna ex parte constituunt, & communicant cum radicibus vasorum excretoriorum renalium* R R, *quos Ureteres vocant, aliorumque viscerum.*

M M M. *Radices confluentes ex renibus cum reliquarum partium radicibus ad componendum truncum communem primum.*

N N. *Radices ex [illegible] & aliis partibus confluentes in truncum receptaculi sanguinis tertium, qui non est communis omnibus partibus, quem portam appellant.*

Receptaculi sanguinis Truncus tertius.

O, *quem portam vocant, qui non est communis omnibus partibus.*

Receptaculi sanguinis Angustia tertia

P P P. *quae magna ex parte substantiam hepatis componunt, cum quibus communicant radices vasorum biliariorum, quae angustiae inde confluunt in truncum communem primum.*

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